

# Historic, archived document

Do not assume content reflects current  
scientific knowledge, policies, or practices.



a521  
A75U44  
copy 2

# MICRO-ORGANISM CULTURE COLLECTIONS: ACRONYMS AND ABBREVIATIONS

---

ARS-NC-17

June 1974

U.S. DEPT. OF AGRICULTURE  
NORTH CENTRAL  
REGION  
CURRENT SERIAL RECORDS



## Preface

This study and compilation was made as part of the investigations being conducted at the Northern Regional Research Laboratory, Agricultural Research Service, Peoria, Ill., on industrial utilization of cereal grains and oilseed crops. The ARS Culture Collection (with acronym NRRL) maintained here is one of the world's largest and most complete collections of agriculturally and industrially important bacteria, yeasts, molds, and actinomycetes. This collection serves as a source of authentic micro-organisms for the fermentative production of organic acids, vitamins, antibiotics, enzymes, feeds, beverages, and foods. Also, it serves as a repository for strains concerned with patent applications and as a source of micro-organisms of value in studies on the pollution control and health aspects of the Department's research in these areas.

I am indebted to Dr. W. C. Haynes, bacteriologist, ARS Culture Collection Research, NRRL, for supplying about 100 of the acronyms listed herein.

# MICRO-ORGANISM CULTURE COLLECTIONS: ACRONYMS AND ABBREVIATIONS

By T. G. Pridham, *ARS Culture Collection, Northern Regional Research Laboratory,  
Agricultural Research Service, U.S. Department of Agriculture, Peoria, Ill.*

A most important aspect of the operation of a collection of micro-organisms involves recording histories of many strains, chronicling. In chronicling, the designation of strains of micro-organisms by an acronym and number has become necessary for an orderly arrangement of thousands of strains currently under study in many laboratories, and also it provides an accurate reference for future students who will collate the results of research conducted with these materials. Many of the strains now under study will be adequately preserved for some time. Accurate, original designation and identity of that designation with progeny, descendants, or subcultures of particular strains is critical.

Unfortunately, some of the early researchers either recognized no need for strain designations, or they believed it unnecessary. Some modern-day microbiologists still follow this pattern. It is difficult to comprehend many reports on micro-organisms because of omissions in strain designations, omissions of characterizations of the strains under study, and lack of adequate provisions for preserving strains.

Lack of provision for adequate preservation, of course, was no real fault of the early workers because some of the knowledge in this area had not yet been obtained, as lyophilization or liquid nitrogen preservation. Publications on *Streptomyces albus* (Rossi Doria), Waksman and Henrici, 1943, are adequate examples where neglect of assigning acronyms and strain numbers and inability to preserve strains has led to much confusion. There are numerous contributions on one or more functions of *S. albus* where no acronym, no strain number, or any kind of formal characterization is given and no strains were preserved. With the knowledge that the name appears to have been applied to at least two different kinds of streptomycetes (Pridham and Lyons<sup>1</sup>, Lyons and Pridham<sup>2</sup>), the uncertainties are evident that arise in attempting to collate and to generalize about functions or characteristics of this species.

Hundreds of different collections of micro-organisms are known throughout the world, each with its own numbering system. Many of these collections

---

<sup>1</sup>PRIDHAM, T. G. AND LYONS, A. J. "STREPTOMYCES ALBUS" (ROSSI-DORIA) WAKSMAN ET HENRICI: TAXONOMIC STUDY OF STRAINS LABELED "STREPTOMYCES ALBUS". J. BACT. 81: 431-441. 1961.

<sup>2</sup>LYONS, A. J. AND PRIDHAM, T. G. PROPOSAL TO DESIGNATE STRAIN ATCC 3004 (IMRU 3004) AS THE NEOTYPE STRAIN OF "STREPTOMYCES ALBUS" (ROSSI-DORIA) WAKSMAN AND HENRICI. J. BACT. 83: 370-380. 1962.



maintain progeny of the same original strains obtained either from the person who first isolated the micro-organism or secondhand through culture collection exchange agreements and purchases. Thus, progeny of the same strain are available under many different designations.

To more precisely identify such progeny, the acronym (abbreviation, sigla) of the collection where they are maintained serves as a prefix for the number. For example, NRRL 2209 is the acronym and strain number of progeny of *Streptomyces aureofaciens* Duggar 1948, strain Lederle A-377 maintained in the ARS Culture Collection of the Northern Regional Research Laboratory. The acronym, NRRL, now is known among culture collection specialists to refer to the ARS Culture Collection. The strain number 2209 indicates that this strain was the 2,209th accessioned into the permanent mold collection.

Although streptomycetes are known to be bacteria, at the time of accessioning, that issue was cloudy, and the decision was made to include U.S. patent deposition strains of streptomycetes in the permanent mold collection. This strain was the first patent deposition strain accessioned in the ARS Culture Collection in connection with a U.S. patent application.

Only an accurate and complete chronicle can reveal the original identity of many strains each of which carries many different designations, the extent depending only upon the number of different collections which have acquired progeny of the micro-organism. For example, the original strain designation of *Stm. aureofaciens* was Lederle A-377. Thus, Lederle A-377 and NRRL 2209 are designations for progeny of the same strain.

As another example, *Streptoverticillium abikoense* (Umezawa et al.) Locci et al. 1969 is a proposed species whose type strain was originally numbered Z-1-6 at the National Institute of Health of Japan (NIHJ). Therefore, the original strain designation was NIHJ Z-1-6. Progeny of this strain now carry the following different acronyms and numbers, among others: ATCC 12766 (American Type Culture Collection), IMRU 3654 (Institute of Microbiology, Rutgers University), NRRL B-2133 (Northern Regional Research Laboratory). Theoretically, cultures designated by these acronyms and numbers all should exhibit the same characteristics, provided they have been maintained properly. Also considered are variations encountered among the various and sundry criteria used for characterization and description.

As indicated before, there now are many culture collections located throughout the world, some quite reliable, others less so. Martin and Skerman<sup>3</sup> indicated that some 800 collections had been solicited for information to prepare their "World Directory of Collections of Microorganisms". Unfortunately, they neglected to include the acronyms for the collections they listed. Information may be obtained on acronyms by perusing many different culture collection catalogues; but none provides a complete list. Accordingly, it is the purpose of this bulletin to provide the most complete listing to date.

The list should be of value to culture collection personnel and researchers desiring precise information on strains they are studying or the location of collections where particular strains may be obtained. It was not possible to obtain complete addresses for some collections. Nevertheless, enough information is given to allow pursuit of any leads that may be indicated.

---

<sup>3</sup>MARTIN, S. M. AND SKERMAN, V. D. B., EDS. WORLD DIRECTORY OF COLLECTIONS OF CULTURES OF MICROORGANISMS. 560 PP. NEW YORK. 1972.

Because the Russians use either English or Cyrillic letters in either English or Russian language publications, acronyms for the Russian collections are given in both languages. Where possible, the titles of non-U.S. organizations have been translated into English. Thus, the acronyms originally based on the organization titles in the native languages may not seem to be based on the initial letter of each important component of the title.

Some collections have been abandoned for various reasons, yet their acronyms remain in the scientific literature. These also are included in the list. Some collections listed in the World Directory apparently have no known acronyms. In coining an acronym, directors of such collections are advised to study this list carefully to avoid duplication which could lead to confusion. A number of the acronyms listed herein are not included in the publication of Crowley and Thomas<sup>4</sup>, a comprehensive listing of many acronyms and initialisms covering many fields.

## Acronym or Abbreviation

## Meaning

<b>ABBOTT</b>	Abbott Laboratories, North Chicago, Ill. 60064 U.S.A.
<b>ABJ</b>	Association of Brewers of Japan, Tokyo, Japan.
<b>ACC</b>	Akers Research Laboratories of Imperial Chemical Industries, Ltd., Welwyn, Herts, England. (Formerly BRL or ARL.)
<b>ACM</b>	Archive of Microbial Strains, National University of Tecuman, S.M. Tecuman, Argentina, S.A.
<b>ACR</b>	Department of Bacteriology, University of Wisconsin, Madison, Wis. 53706 U.S.A.
<b>ACRIC</b>	Agricultural College of Research Institute, Coimbatore, India.
<b>ACST</b>	Advisory Committee on the Application of Science and Technology to Development (ECOSOC).
<b>ACTU</b>	Department of Agricultural Chemistry, Faculty of Agriculture, University of Tokyo, I-I-I Yayoi, Bunkyo-ku, Tokyo, Japan. See FAT and ATU.
<b>AECU</b>	Agricultural Experiment Station, New York College of Agriculture, Cornell University, New York, N.Y. 10001 U.S.A.
<b>AHTS</b>	Abeno Higher Technical School, Osaka, Japan.
<b>AHU</b>	Laboratory of Culture Collection of Microorganisms, Faculty of Agriculture, Hokkaido University, Nishi-9-chôme, Kita-9-jo, Sapporo City, Japan.
<b>AID</b>	Agency for International Development.
<b>AIMS</b>	See IAMS.
<b>AIU</b>	Faculty of Agriculture, Iwate University, Osaka, Japan.

<sup>4</sup>CROWLEY, E. T. AND THOMAS, R. C., EDS. ACRONYMS AND INITIALISMS DIRECTORY. ED. 4, 635 PP. GALE RESEARCH CO., DETROIT, MICH., U.S.A. 1973.



<b>AJ</b>	Central Research Laboratories, Ajinomoto Company, Inc., Kawasaki, Japan.
<b>AKMI</b>	Department of Technical Microbiology, August Kirchenstein Institute of Microbiology, Latvian Academy of Sciences, 55-Kleisti, Riga, Latvia.
<b>AKU</b>	Faculty of Agriculture, Kyoto University, Kyoto, Japan.
<b>AMC</b>	Walter Reed Army Medical Center, Washington, D.C. 20013 U.S.A. (Formerly Army Medical Department Research and Graduate school or Army Medical Corp).
<b>AMD</b>	Agricultural Microbiology Division, Ministry of Agriculture, University Street, Orman, Giza, United Arab Republic.
<b>AMERICAN CYANAMID</b>	American Cyanamid Company, New York, N.Y. 10001 U.S.A. See also "Lederle".
<b>AMIF</b>	American Meat Institute Foundation, Chicago, Ill. 60607 U.S.A.
<b>AMNH</b>	American Museum of Natural History, Central Park West and 79th Street, New York, N.Y. 10024 U.S.A.
<b>AMP</b>	Australian Mycological Panel. (Formerly Aust. or SN.)
<b>AMS</b>	Army Medical School, Japan.
<b>ANU</b>	Faculty of Agriculture, Niigata University, Japan.
<b>AOU</b>	Faculty of Agriculture, Okayama University, Okayama, Japan.
<b>APQS</b>	Yokohama Animal and Plant Quarantine Station, M.A.F., Japan.
<b>ARCH</b>	Antibiotics Research Center, Hindustan Antibiotics, Ltd., Pimpri, Poona District, India. See HACC.
<b>ARI (API)</b>	Antibiotics Research Institute, Moscow, U.S.S.R. Also USSR ARI.
<b>ARIN</b>	Nippon Agricultural Research Institute, Tokyo, Japan. Also RAJ.
<b>ARS</b>	Agricultural Research Service, U.S. Department of Agriculture, Washington, D.C. 20250 U.S.A.
<b>ARL</b>	See ACC.
<b>ASCA</b>	Department of Agricultural Botany, Faculty of Agriculture, Ain Shams University, Shoubra El Khaima, United Arab Republic.
<b>ATCC</b>	American Type Culture Collection, 12301 Parklawn Drive Rockville, Md. 20852 U.S.A. Formerly located at 2112 M Street, N.W., Washington, D.C. U.S.A.
<b>ATU</b>	Faculty of Agriculture or Department of Agricultural Chemistry, Tokyo University, 1 Chome Mukogaoka, Yayoi-cho, Bunkyo-ku, Tokyo, Japan. See FAT and ACTU.



<b>AY</b>	Culture Collection, Ayerst Research Laboratories, 1025 Laurentian Blvd., Saint-Laurent, Quebec, Canada.
<b>Baarn/Delft</b>	See CBS.
<b>Basel</b>	W. Vischer Collection, Botanical Institute, University of Basel, Basel, Switzerland.
<b>BATU</b>	Department of Forestry, Institute of Botany, Faculty of Agriculture, University of Tokyo, Tokyo, Japan.
<b>BBI</b>	Biological Institute for Soil and Forestry, Kiel-Kitzeburg, Germany.
<b>BBL</b>	Baltimore Biological Laboratory, Division of Bioquest, Division of Becton, Dickinson and Co., Cockeysville, Md. 21030 U.S.A.
<b>BCCM</b>	British Commonwealth Collections of Microorganisms, London, England.
<b>BCIRA</b>	British Cotton, Silk, and Man-made Fibres Research Association, Manchester, England. (Formerly British Cotton Industries Research Association.)
<b>BCMT</b>	Brazilian Collection of Microbial Types, Laboratory of Parasitology, National Faculty of Medicine, University of Brazil, Rio de Janeiro, Brazil, S.A.
<b>BDUN</b>	Botany Department, University of Nottingham, Nottingham, England.
<b>BEECHAM</b>	Beecham Research Laboratories, Brockham Park, Betchworth, Surrey, England.
<b>BFQM</b>	Bacterioteca, Faculty of Chemistry, Montevideo, Uruguay, S.A.
<b>BIB</b>	Botanical Institute, Berne, Switzerland.
<b>BIG</b>	Botanical Institute, Ernst-Moritz-Arndt-University, Grimmerstrasse 88, Greifswald, East Germany. <i>Also</i> BIU and BIU BIG.
<b>BIHM</b>	Botanical Institute, Hanover Münden, Germany.
<b>BIL</b>	Botanical Institute, Karl Marx University, Talstrasse 33, 701, East Germany.
<b>BIN</b> (БИН)	V.L. Komarova Botanical Institute, Leningrad, U.S.S.R.
<b>BIOVETA</b>	An agency producing veterinary biologicals, Czechoslovakia.
<b>BIRA</b>	British Leather Research Association, Egham, Surrey, England.
<b>BIU</b>	See BIG.
<b>BIU BIG</b>	See BIG.
<b>BKM</b> (БКМ)	Department of Type Cultures, Institute of Microbiology, Academy of Sciences, Moscow, U.S.S.R. <i>or</i> All-Union Collection of Microorganisms, Moscow, U.S.S.R. <i>Also</i> BKMF.
<b>BKMF</b> (БКМФ)	See BKM.

<b>BI</b>	Culture Collection of Algae, Indiana University, Bloomington, Ind. 47401 U.S.A.
<b>BLUS</b>	Baljevaxtlaboratoriet Lantbruksholan, Uppsala, Sweden.
<b>BNFS</b>	B.N.F. Scheme, Poona-5, India.
<b>BOOTS</b>	Culture Collection, Antibiotics and Fermentation Division, Boots Pure Drug Company, Ltd., Dale-side Road, Nottingham, England. See <i>a/so</i> BPD and CUB.
<b>BPD</b>	Research Department, Boots Pure Drug Company, Ltd., Oakfields Road West, Bridgford, Nottingham, England. See <b>BOOTS</b> and <b>CUB</b> .
<b>BPI</b>	Type Culture Collection, Burma Pharmaceutical Industry, Industrial Development Corporation, Ministry of Industry, BPI Road, Gyogon, Rangoon, Burma.
<b>BPSP</b>	Beneficencia Portuguesa, San Pablo, Brazil, S.A.
<b>BRISTOL</b>	Bristol Laboratories, P.O. Box 657, Syracuse, N.Y. 13201 U.S.A.
<b>BRL</b>	See <b>ACC</b> . (Formerly Butterwick Research Laboratories, Imperial Chemical Industries, Ltd., Welwyn, Herts, England.)
<b>BS</b> <b>(BC)</b>	Botanical Institute, Academy of Sciences, Moscow, U.S.S.R.
<b>BS</b>	Institute of Microbiology, University of Brno, Brno, Czechoslovakia.
	<i>or</i>
	Institute of Microbiology, Masaryk University, Brno, Czechoslovakia.
	<i>or</i>
	Department of Microbiology, Faculty of Natural Sciences, J.E. Purkyně University, Brno, Czechoslovakia.
<b>BSCH</b>	Institute of Bacteriology of Chile, Santiago, Chile, S.A.
<b>BSCU</b>	Botany School, Cambridge University, Cambridge, England.
<b>BSM</b>	BSM Culture Collection, Botany Department, University of Allahabad, Allahabad, India.
<b>BSOU</b>	Department of Biology, Faculty of Science, Osaka University, Osaka, Japan.
<b>BSRI</b>	Brewing Science Research Institute, Tokyo, Japan. May also be same as <b>GIB</b> or <b>RIB</b> .
<b>BU or BÚ</b>	Biologický Ustav Československá Akademie Ved., Na cvičisti, Prague 6, Czechoslovakia. <i>A/so</i> <b>BÚČSAV</b> or <b>BÚČSAV (BU)</b> or <b>BÚ BÚČSAV</b> .
<b>BÚCSAV</b>	See <b>BU</b> .
<b>BÚČSAV (BU)</b>	See <b>BU</b> .
<b>BÚ BÚČSAV</b>	See <b>BU</b> .

<b>BYIC</b>	Berkeley Yeasts Laboratory, Berkeley, Calif. 94701 U.S.A.
<b>CAES</b>	Chiba Prefecture Agricultural Experiment Station, Chiba, Japan.
<b>Cambr.</b>	Culture Collection of Algae and Protozoa, Botany School, University of Cambridge, Cambridge, England. <i>See</i> CU.
<b>CANAD-201</b>	Division of Bacteriology and Dairy Research Science Service, Department of Agriculture, Ottawa, Canada.
<b>CANAD-212</b>	Division of Bioscience, National Research Council, Ottawa, Canada.
<b>CAPM</b>	Collection of Animal Pathogenic Microorganisms, Research Institute of Veterinary Medicine, Brno-Medlánky, Czechoslovakia.
<b>CASE</b>	Case Laboratories, Chicago, Ill. 60601 U.S.A.
<b>CB</b>	Collection of Basidiomycetes, Institute of Micro- biology, Czechoslovak Academy of Sciences, Prague-Krč, Budějovická, Czechoslovakia.
<b>CBLB</b>	Collection of Bacteriophages and Lysogenic Bac- teria, Institute of Biophysics, Czechoslovak Academy of Sciences, Královopolská 135, Brno, Czechoslovakia.
<b>CBRS</b>	Coffee Board Research Station, Mysore, India.
<b>CBS</b>	Centraalbureau voor Schimmelcultures, Ooster- straat 1, Baarn, Netherlands. <i>Also</i> Baarn/Delft.
<b>CBSC</b>	Carolina Biological Supply Company, Elon College, N.C. 27244 U.S.A.
<b>CC</b>	CSIRO Division of Plant Industry, Canberra City, A.C.T., Australia.
<b>CCEB</b>	Culture Collection of Entomogenous Bacteria, De- partment of Insect Pathology, Institute of Ento- mology, Institute of Biology, Czechoslovak Academy of Sciences, Na cvičišti 2, Prague 6, Czechoslovakia.
<b>CCF</b>	Culture Collection of Fungi, Department of Botany, Faculty of Sciences, Charles University, Benátská 2, Prague 2, Czechoslovakia.
<b>CCH</b>	National Sanatorium, Chubu Central Hospital, Obu, Japan.
<b>CCM</b>	Czechoslovak Collection of Microorganisms, J.E. Purkyně University, tříd Obrónů Míru 10, Brno, Czechoslovakia.
	<i>or</i>
	Collection of Microbial Cultures, Faculty of Phar- macy and Biochemistry, Junín 954-IV piso, Buenos Aires, Argentina, S.A.
<b>CCMDB</b>	Culture Collection, Microbiology Department, Faculty of Science, J.E. Purkyně University, tříd Obrónů Míru 10, Brno, Czechoslovakia.



<b>CCMTC</b>	Center of Collection of Microbial Types of Czechoslovakia, Department of Parasitology, Charles IV University, Prague, Czechoslovakia.
<b>CCPY</b>	Laboratory for Mycological Research, Faculty of Medicine, Comenius University, Mickiewiczova 13, Bratislava, Czechoslovakia.
<b>CCRUAR</b>	Department of Soil Science, Agricultural College, Alexandria University, Chatby, Alexandria, United Arab Republic.
<b>CCTCC</b>	Committee of Chinese Type Culture Collections, Shanghai, China.
<b>CCTM</b>	Centre de Collections de Types Microbiens, 19 Avenue César-Roux, Lausanne, Switzerland.
<b>CCUPB</b>	Culture Collection, Utrecht Pays-Bas, Netherlands.
<b>CCY</b>	Institute of Chemistry of the Czechoslovak Academy of Sciences, Dúbravská cesta, Bratislava, Czechoslovakia. <i>A/so</i> CHISAV.
<b>CDA</b>	Canadian Department of Agriculture, Ottawa, Ontario, Canada.
<b>CDC</b>	Center for Disease Control <i>or</i> Communicable Disease Center, United States Public Health Service, Atlanta, Ga. 30333 U.S.A. <i>A/so</i> NCDC <i>or</i> CDC-RH. <i>See</i> RH.
<b>CDC-RH</b>	<i>See</i> CDC.
<b>CEB</b>	Centre d'Études du Bouchet, Le Bouchet, France.
<b>CECT</b>	Spanish Collection of Type Cultures, Department of Microbiology, Faculty of Science, Salamanca, Spain. <i>A/so</i> CSIC.
<b>CEFAV</b>	Center of Enterobacteria, Agronomic and Veterinary Faculty, University of Buenos Aires, Buenos Aires, Argentina, S.A.
<b>CEFC</b>	Central Experimental Farm, Ottawa, Ontario, Canada.
<b>CEMA</b>	Experimental Farm of Mandioca, Azvedo, Brazil, S.A.
<b>CFMR</b>	Center for Forest Mycology Research, Forest Products Laboratory, P.O. Box 5130, North Walnut Street, Madison, Wis. 53705 U.S.A.
<b>CHISAV</b>	<i>See</i> CCY.
<b>Christen</b>	H.R. Christen Collection, Winterthur, Switzerland.
<b>CI</b>	Carnegie Institute, Cold Spring Harbor, Long Island, N.Y. 11101 U.S.A. <i>A/so</i> CIW.
<b>CIAM(L)</b>	All-Union Scientific Research Institute of Agricultural Microbiology, Gerzen Stree, 42, Leningrad, U.S.S.R.
<b>CIB</b>	Centrul Experimental de Ingrȳăminte Bacteriene, Bucharest, Roumania.

<b>CIMI</b>	Center of Industrial Microbiological Investigations, National Institute of Industrial Technology, Buenos Aires, Argentina, S.A.
<b>CIOMS</b>	Council for International Organizations of Medical Sciences.
<b>CIOS</b>	International Council for Scientific Organization.
<b>CIP</b>	Collection of Microorganisms of the Pasteur Institute, Paris, France.
<b>CIS</b>	Chiba Serum Institute, Chiba, Japan.
<b>CIUS</b>	International Council of Scientific Unions.
<b>CIW</b>	See CI.
<b>CJDA</b>	Technical Research and Development Center of Japan Defense Agency, Tokyo, Japan.
<b>CL</b>	Carlsberg Laboratory, Copenhagen, Denmark.
<b>CLMR</b>	Central Laboratory, South Manchuria Railway Company, Ltd., Darien, Manchuria. No longer in existence.
<b>CLV</b>	Central Vaud Dairy, Lausanne, Switzerland.
<b>CMAIRA</b>	Collection of Agricultural Microorganisms, Institute of Agricultural Research, Ministry of Agriculture, Prague, Czechoslovakia.
<b>CMBA</b>	Mycology Center, Faculty of Medical Science, Buenos Aires, Argentina, S.A.
<b>CMi</b>	Commonwealth Mycological Institute, Ferry Lane, Kew, Surrey, England. (Formerly Imperial Bureau of Mycology, Imperial Mycological Institute.) See IMI.
<b>CMiIM</b>	Collection of Industrial Microorganisms, Institute of Mycology, Prague, Czechoslovakia.
<b>CMRI</b>	Colonial Microbiological Research Institute, Port-of-Spain, Trinidad, B.W.I. See Hankey.
<b>CMT</b>	Center of Soil Mycology, Torino, Italy.
<b>CN</b>	Burroughs Wellcome Research Laboratories, Beckenham, Kent, England.
<b>CODATA</b>	Committee on Data for Science and Technology.
<b>COH</b>	Research Institute for the Fermentation Industry, Enzymology and Technical Microbiology, Germany.
<b>COMAMI</b>	Collection of Agricultural, Marine and Industrial Microorganisms, Institute of Agricultural and Technical Microbiology, E. de Nicola, Sessari, Italy.
<b>COMSOL</b>	Commercial Solvents Corporation, Terre Haute, Ind. 47808 U.S.A.
<b>COSTED</b>	Committee on Science and Technology in Developing Countries.
<b>CPBG</b>	Commonwealth Bureau of Plant Breeding and Genetics, School of Agriculture, Cambridge, England. See a/so IPBD.

<b>CPHL</b>	Central Public Health Laboratory, London, England.
<b>CPMIPH</b>	Collection of Pathogenic Microorganisms, Institute of Public Hygiene, Prague, Czechoslovakia.
<b>CRB</b>	Former Corps Research Division, now included in Plant and Entomological Sciences, Agricultural Research Service, U.S. Department of Agriculture, Beltsville, Md. 20705 U.S.A.
<b>CRIFI</b>	Central Research Institute of Food Industry.
<b>CRIPP</b>	Department of Microbiology, Research Institute of Cereal and Technical Plants, Bulev. Ion-Ionescu dela Brod No. 8, Bucuresti-Boneosa, Roumania. (Now in Czechoslovakia; See next entry).
	<i>or</i>
	Central Research Institute of Plant Production, Prague-Ruzyně, Czechoslovakia.
<b>CS</b>	Centrallstelle, Netherlands.
<b>CSC</b>	See COMSOL.
<b>CSIC</b>	See CECT.
<b>CSIR</b>	Council for Scientific & Industrial Research, Pretoria, Union of South Africa.
	<i>or</i>
	Council of Scientific and Industrial Research, Poona, India.
<b>CSIRO</b>	Commonwealth Scientific and Industrial Research Organization, Division of Food Preservation and Transport, Homebush, N.S.W., Australia.
<b>CSLPA</b>	Commonwealth Serum Laboratory, Parkeville, Victoria, Australia.
<b>CTF</b>	Technical Center of Farmalobiology, Madrid, Spain.
<b>CU</b>	Culture Collection of Algae and Protozoa, Botany School, Cambridge University, Cambridge, England. See <i>a/so</i> Cambr.
	<i>or</i>
<b>CUB</b>	Cornell University, Ithaca, N.Y. 14850 U.S.A. Actinomycete Culture Collection, School of Applied Biology, University of Bradford, Bradford, Yorkshire, England. Also maintains some cultures previously maintained at Antibiotics and Fermentation Division, Boots Pure Drug Company, Ltd., Nottingham, England.
<b>CVL</b>	Central Veterinary Laboratory, Ministry of Agriculture, Fisheries and Food, Weybridge, England.
<b>CYCC</b>	Czechoslovakian Yeast Culture Collection.
<b>CZAA</b>	Czechoslovak Academy of Agricultural Sciences, Prague, Czechoslovakia.



<b>DABIS</b>	Former Bureau of Plant Industry, Soil and Agricultural Engineering, now part of Agricultural Research Service, U.S. Department of Agriculture, Beltsville, Md. 20705 U.S.A.
<b>DACF</b>	Department of Agriculture, Canada.
<b>DAIMB</b>	National Institute of Biology, Department of Agriculture, Argentina, S.A.
<b>DAOM</b>	Mycological Herbarium or Ottawa Mycology, Division of Botany and Plant Pathology, Department of Agriculture, Ottawa, Ontario, Canada.
<b>DASA</b>	Department of Agriculture and Stock, Brisbane, Australia.
<b>DB</b>	Division of Bacteriology and Dairy Research, Department of Agriculture, Ottawa, Ontario, Canada.
<b>DBAU</b>	Department of Bacteriology, The American University, Beirut, Lebanon.
<b>DBCEFC</b>	Department of Botany, Central Experimental Farm, Ottawa, Ontario, Canada.
<b>DBCO</b>	Department of Bacteriology, University of Oregon, Corvallis, Oreg. 97330 U.S.A.
<b>DBFU</b>	Department of Bacteriology, Faculty of Medicine, Fouad Ier, University Kasr-el-Aini, Le Caire, Le Caire, United Arab Republic.
<b>DBLMC</b>	Department of Botany, R.G. Lar Medical College, Calcutta, India.
<b>DBPU</b>	Department of Biological Sciences, Purdue University, Lafayette, Ind. 47902 U.S.A.
<b>DBUN</b>	Department of Bacteriology, University of Nebraska, Lincoln, Neb. 68501 U.S.A.
<b>DBUNC</b>	Department of Botany, University of North Carolina, Chapel Hill, N.C. 27514 U.S.A.
<b>DBUP</b>	Department of Biology, Medical Faculty, Palacky University, Olomouc 5, Czechoslovakia.
<b>DFP</b>	Division of Forest Products, Melbourne, Australia.
<b>DHI</b>	Former Dairen Hygienic Institute.
<b>DIA</b>	Institute of Animal Industry, Brazil, S.A.
<b>DIFCO</b>	Difco Laboratories, Detroit, Mich. 48226 U.S.A.
<b>DINR</b>	Section of Natural Resistance, Division of Plant Immunology, Institute of Phytotechnology M.A.G., Argentina, S.A.
<b>DIPC</b>	Section of Cultivable Pathogenic Fungi, Division of Plant Immunology, Institute of Phytotechnology M.A.G., Argentina, S.A.
<b>DMG</b>	Department of Microbiology, University of Guelph, Guelph, Canada.
<b>DMIA</b>	Department of Microbiology, Institute of Agronomy, Héverle, Belgium.

<b>DMUC</b>	Department of Microbiology, University of Concepción, Casillo 272, Concepción, Chile, S.A.
<b>DMUR</b>	Department of Mycology, University of Recife, Recife, Brazil, S.A.
<b>DPP</b>	Department of Plant Pathology, Institute of Experimental Botany, Czechoslovak Academy of Sciences, Na Karlovce 1, Prague 6, Czechoslovakia.
<b>DRL(M)</b>	Kanpur Culture Collection, Defense Research Laboratory (Materials), P.B. 320, Kanpur, Uttar Pradesh, India.
<b>DS</b>	An acronym of unknown derivation. <i>Also</i> Rhone-Poulenc. <i>See</i> RP.
<b>DSIR</b>	Department of Scientific and Industrial Research, Auckland, New Zealand.
	<i>or</i>
	Department of Scientific and Industrial Research, England.
<b>DSL</b>	Defence Standard Laboratories, Australia.
<b>DUSM</b>	School of Medicine, Duke University, Durham, N.C. 27701 U.S.A.
<b>EAN</b>	National Agronomic Station, Lisbon, Portugal.
<b>EANSP</b>	National Agronomic Station, Savanac, Portugal.
<b>EAP</b>	Piracicaba School of Agriculture, San Pablo, Brazil, S.A.
<b>ECA</b>	Department of General Microbiology, College of Agriculture, University of Edinburgh, West Mains Rd., Edinburgh 9, Scotland.
<b>ECOSOC</b>	Economic and Social Council of the United Nations.
<b>EEAG</b>	Experiment Station of Arroz, Gravataí, Brazil, S.A.
<b>EECC</b>	Central Experimental School, Castelar, Argentina, S.A.
<b>EEO</b>	Experiment Station, Osorio, Brazil, S.A.
<b>EEPT</b>	Experiment Station of Pomiculture, Toquari, Brazil, S.A.
<b>EESM</b>	Experiment Station of Silviculture, Santa María, Brazil, S.A.
<b>EFA</b>	Station of Agricultural Phytopathology, La Coruña, Spain.
<b>EIAM</b>	The Estonian Research Institute for Agriculture and Soil Improvement, Tallinn, Est.S.S.R.
<b>(ЭИАМ)</b>	
<b>Eli Lilly</b>	Eli Lilly and Company, Indianapolis, Ind. 46206 U.S.A. <i>See also</i> Lilly.
<b>EMRS</b>	East Malling Research Station, Kent, England.
<b>ENAP</b>	National School of Agriculture, La Molina, Apartado 456, Lima, Perú, S.A.
<b>ENCB</b>	Herbarium of the National Polytechnic Institute, Mexico, D.F.

<b>ENIIZM</b> <b>(ЭНИИЗМ)</b>	Estonian Scientific Research Institute of Agriculture and Soil Improvement. g. Saku, Khar'yuskiĭ r-n, Est.S.S.R.
<b>ENSCU</b>	National School of Health, University City, Madrid, Spain.
<b>ERDC</b>	Engineering Research and Development Center, U.S. Army, Fort Belvoir, Va. 22060 U.S.A.
<b>ESA</b>	Vicosa Higher School of Agronomy, Minas Gerais, Brazil, S.A.
<b>ESAH</b>	National Institute of Animal Health, Tokyo, Japan.
<b>ESAP</b>	Luiz de Queiroz Higher School of Agriculture, Piracicaba, San Pablo, Brazil, S.A.
<b>Est.Agr.Nac.</b>	National Agronomic Station, Sacavém, Portugal.
<b>ETAV</b>	Technical School of Agriculture, Viamão, Brazil, S.A.
<b>ETH</b>	Institute for Special Botany, Confederated Technical University, Universitätstr. 2, Zürich 6, 8000, Switzerland. A/so ETH-M and ETHZ.
<b>ETH-M</b>	See ETH.
<b>ETHZ</b>	See ETH.
<b>ETU</b>	Faculty of Engineering, Tokyo University, Tokyo, Japan.
<b>EVEC</b>	Experiment Station of Viticulture and Enology, Caxias do Sul, Río Grande de Sur, Brazil, S.A.
<b>EVEV</b>	Villafranca del Penades Station of Viticulture and Enology, Spain.
<b>EVOWG</b>	Confederated Research Institute for Fruit, Wine and Horticulture, Wädenswil, Switzerland. A/so EVWS.
<b>EVWS</b>	See EVOWG.
<b>FAO</b>	Food and Agriculture Organization of the United Nations, Roma, Italy.
<b>FAT</b>	See ACTU.
<b>FAU</b>	Faculty of Agriculture, Utsunomiya University, Japan.
<b>FAUK</b>	Faculty of Agriculture, University of Kyoto, Kyoto, Japan.
<b>FAVBA</b>	Agronomy and Veterinary Faculty, Buenos Aires, Argentina, S.A.
<b>FBRI</b>	Biochemical Research Institute, Kalevenkatu 56 B, Helsinki 18, Finland.
<b>FCTU</b>	Institute of Forest Chemistry, Department of Forest Products, Faculty of Agriculture, Tokyo University, Tokyo, Japan.
<b>FDA</b>	U.S. Food and Drug Administration, 7th and Jefferson Drive S.W., Washington, D.C. 20204 U.S.A.
<b>FEFQ</b>	Fermentations and Enology, Faculty of Chemistry, Montevideo, Uruguay, S.A.



<b>FEH</b>	Experiment Station of Forestry of Hokkaido, Sapporo, Japan.
<b>FERM</b>	Fermentation Research Institute, Agency of Industrial Science and Technology, Ministry of Industrial Trade and Industry, Chiba, Japan. FERM-P is acronym for patent deposition strains.
<b>FES</b>	Government (or National) Forest Experiment Station, M.A.F., 770-4, Shimomeguro, Meguro-ku, Tokyo, Japan.
<b>FGSC</b>	Fungal Genetics Stock Center, Humboldt State College Foundation, Arcata, Calif. 95521 U.S.A.
<b>FH</b>	Farbwerken Hoechst Aktiengesellschaft, Frankfurt/Main-Hoechst, Germany. Also FHP.
<b>FHP</b>	See FH.
<b>FHSP</b>	Faculty of Hygiene, San Pablo, Brazil, S.A.
<b>FIE</b>	Tree Botany Institute, Eberswalde, East Germany.
<b>FIL</b> (ФИЛ)	Leningrad Pharmaceutical Institute, P-22, ul. Popova 14, Leningrad, U.S.S.R.
<b>FIUG</b>	Tree Botany Institute, University of Göttingen, Göttingen, Germany.
<b>FLRM</b>	Farmitalia Microbiological Research Laboratory, Milano, Italy.
<b>FMJ</b>	Faculty of Medicine, Juntendo University, Tokyo, Japan.
<b>FMP</b>	Faculty of Medicine, Paris, France.
<b>FMSP</b>	Mycology Laboratory, Faculty of Medicine, University of Sao Paulo, Caixa Postal 2921, São Paulo or San Pablo, Brazil, S.A.
<b>FMT</b>	Faculty of Medicine, University of Tokyo, Tokyo, Japan.
<b>FPhP</b>	Faculty of Pharmacy, Paris, France.
<b>FPRL</b>	Forest Products Research Laboratory, Princes Risborough, Bucks, England.
<b>FQIA</b>	Faculty of Industrial Chemistry and Agriculture, National University del Litoral, Santa Fé, Argentina, S.A.
<b>FRAIST</b>	Fermentation Research Institute, Agency of Industrial Science and Technology, Tokyo, Japan.
<b>FRI</b>	Food Research Institute, Ministry of Agriculture and Forestry, Tokyo, Japan. or Research Institute for Refrigeration, Bratislava, Czechoslovakia. or Forest Research Institute, Dehradun, India.
<b>FRIP</b>	Fermentation Research Institute Patent Collection, Fermentation Research Institute, Ministry of International Trade and Industry, Inage-higashi, Chiba, Japan.

<b>FSK</b>	Research Institute for Food Science, Kyoto University, Kyoto, Japan.
<b>FSP</b>	Faculty of Science, Paris, France.
<b>FST</b>	Faculty of Science, University of Tokyo, Tokyo, Japan.
<b>FUJI</b>	Tokyo Laboratory, Fujisawa Pharmaceutical Industry, Ltd., 957-3, Nukui-Kita-machi, Koganei-city, Tokyo, Japan.
<b>FYU</b>	Department of Fermentation Industries, Yamanashi University, Motoganagi-cho, Kofu-shi, Yamana-shi-ken, Japan.
<b>GB</b>	Chair of Microbiology, Faculty of Agronomic Sciences, Gembloux, Belgium.
<b>GBE</b>	Gumma Brewing Experiment Station, Maebashi, Japan.
<b>GCMH</b>	Mycological Herbarium of Ghana.
<b>GCRI</b>	Glasshouse Crops Research Institute, Littlehampton, Sussex, England.
<b>Genf</b>	Chodat Collection, Genf, Switzerland.
<b>GESH</b>	Government Experiment Station of Hygiene, Tokyo Japan.
<b>GIB</b>	Research Institute of Brewing, Tax Administration Agency, Takinogawa 2-6, Kita-ku, Tokyo 114, Japan. May be BSRI or RIB.
<b>GKI</b> <b>(ГКИ)</b>	National Institute of Medical and Biological Preparation. L.A. Tarasevkha Ministry of Public Health Service, G-2, Sivtsev-Vrazhek, 41, Moscow, U.S.S.R.
<b>GLAXO</b>	Glaxo Research Ltd., Sefton Park, Stoke Poges, Buckinghamshire, England. See <i>a/so</i> GLMI.
<b>GLMI</b>	Glaxo Laboratories, Ltd., Greenford, Middlesex, England. See <i>a/so</i> GLAXO.
<b>GRIF</b>	Government Research Institute of Formosa. Now defunct.
<b>GU</b>	Applied Mycological Laboratory, College of Agriculture, Gifu University, Gifu, Japan.
<b>HAC</b>	Hyogo University of Agriculture, Sasayama, Japan.
<b>HACC</b>	Research Laboratories, Hindustan Antibiotics, Ltd., Pimpri Poona, 18, India. See <i>a/so</i> ARCH.
<b>Hankey</b>	Hankey Culture Collection, Colonial Microbiological Research Institute, Port-of-Spain, Trinidad, B.W.I. <i>A/so</i> Hankey HCC and HCC. The Hankey Collection is no longer in existence.
<b>Hankey HCC</b>	See Hankey.
<b>HLB</b>	The Hartley Botanical Laboratory, University of Liverpool, Liverpool, England.
<b>HCB</b>	Herbarium of the Congo.
<b>HCC</b>	See Hankey.

<b>HCIO</b>	Herbarium Cryptogamie Indiae Orientalis, Division of Mycology and Plant Pathology, Indian Agricultural Research Institute, New Delhi, India.
<b>HFES</b>	Hiroshima Fermentation Experiment Station, Hiroshima, Japan.
<b>HI</b>	Haffkine Institute, Bombay, India.
<b>HIM</b>	Hygiene Institute and Medicinal Research Service, University of Marburg, Marburg, Germany.
<b>HIR</b>	Food and Fermentation Division, Hokkaido Prefectural Industrial Research Institute, Sapporo, Japan.
<b>HMS</b>	Hopkins Marine Station of Stanford University, Pacific Grove, Calif. 93950 U.S.A. Also HMSSU.
<b>HMSSU</b>	See HMS.
<b>Hoffmann</b>	Hoffmann La Roche Inc., Nutley, N.J. 07110 U.S.A.
<b>HRIRMH</b>	Walter and Eliza Hall Research Institute, Royal Melbourne Hospital, Melbourne, Australia.
<b>HSLP</b>	Saint Louis Hospital, Paris, France.
<b>HUT</b>	Department of Fermentation Technology, Faculty of Engineering, Hiroshima University, 3-Chôme, Senda-Machi, Hiroshima City, 730, Japan.
<b>IAB</b>	ICSU Abstracting Board.
<b>IABH</b>	Bello Horizonte Agronomic Institute, Minas Gerais, Brazil, S.A.
<b>IAC</b>	Campinas Agronomic Institute, San Pablo, Brazil, S.A.
<b>IACOMS</b>	International Advisory Committee on Marine Sciences.
<b>IAL</b>	Adolfo Lutz Institute, São Paulo, Brazil, S.A.
<b>IA Louvain</b>	Agronomy Institute, Louvain, Belgium.
<b>IAM</b>	Institute of Applied Microbiology, University of Tokyo, Mukogaoka I-I-I or 1-chôme Yayoi-cho, Bunkyo-ku, Tokyo, Japan.
<b>IAMB</b>	International Association of Microbiologists (superseded by IAMS).
<b>IAMS</b>	International Association of Microbiological Societies.
<b>IAMUT</b>	Faculty of Agriculture, Hokkaido University, Sapporo, Japan.
<b>IARI</b>	Indian Agricultural Research Institute, New Delhi, India.
<b>IAUM</b>	Institute of Agriculture, University of Minnesota, Minneapolis, Minn. 55455 U.S.A.
<b>IAUR</b>	Institute of Antibiotics, University of Recife, Recife, Pernambuco, Brazil, S.A.
<b>IAW</b>	Institute of Antibiotics, ul. Staroscinska 5, Warsaw 12, Poland.



<b>IB</b>	São Paulo Biological Institute, São Paulo, Brazil, S.A.
	<i>or</i>
	San Pablo Biological Institute, San Pablo, Brazil, S.A.
	<i>or</i>
	Institute of Biophysics, Czechoslovak Academy of Sciences, Královopolska 135, Czechoslovakia.
<b>IBA</b>	Asunción Bacteriological Institute, Asunción, Paraguay, S.A.
<b>IBCAS</b>	Institute of Biology, Czechoslovak Academy of Sciences, Prague, Czechoslovakia.
<b>IBFI</b> (ИБФИ)	Institute of Biophysics, U.S.S.R. Academy of Sciences, V-133, ul. Profsoyuznaya 7, Moscow, U.S.S.R.
<b>IBG</b>	Institute of Soil Fertility, Oosterweg 41, Haren, Groningen, Netherlands.
	<i>or</i>
	Botanical Institute, Geneva, Switzerland.
<b>IBGH</b>	Institute for Botany, Fermentation Physiology and Yeast Pure Culture of the Teaching and Inves- tigations Establishment for Wine, Fruit and Horticulture, Geisenheim am Rhein, Germany.
<b>IBL</b>	Botanical Institute, Lisbon Faculty of Sciences, Lisbon, Portugal.
<b>IB Lyon</b>	Institute of Bacteriology, Lyon, France.
<b>IBM</b>	Laboratory of Mycology, Malbrán Bacteriological Institute, Vélez Sarsfield 563, Buenos Aires, Argentina, S.A. Now known as National Institute of Microbiology.
<b>IBP</b>	International Biological Program.
<b>IBSC</b>	Institute of Bacteriology, Santiago, Chile, S.A.
<b>IBSIC</b>	Institute of Biology and Serotherapy, Cajal In- stitute, Madrid, Spain.
<b>IBSS</b>	Institute of Bacteriology, Stockholm, Sweden.
<b>IBUB</b>	Botanical Institute, University of Basle, Basle, Switzerland.
<b>IBSP</b>	Butantan Institute, San Pablo, Brazil, S.A.
<b>ICA</b>	Laboratory of Microbiology, Section of Viticulture, Institute of Cercetari Agronomy, Bucharest, Romania.
<b>ICAR</b>	Institute of Cercetari Agronomy, Bucharest, Romania.
<b>ICCC -I</b>	First International Conference on Culture Collec- tions, held in Tokyo, Japan, October 7-11, 1968.
<b>ICCC-II</b>	Second International Conference on Culture Col- lections, held in São Paulo, Brazil, S.A., July 15-20, 1973.

<b>ICI</b>	Butterwick Research Laboratories, Imperial Chemical Industries, Ltd., Welwyn, Herts, England.
<b>ICIA</b>	International Center of Information on Antibiotics, 32 Blvd. de la Constitution, Liège, Belgium.
<b>ICI Nobel Div.</b>	Imperial Chemical Industries, Ltd., P.O. Box 25, Alderley Park, Macclesfield, Cheshire, England.
<b>ICPB</b>	International Collection of Phytopathogenic Bacteria, Davis, Calif. 95616 U.S.A.
<b>ICQ</b>	Institute of Clinical Surgery, Clinical Hospital, Buenos Aires, Argentina, S.A.
<b>ICRO</b>	International Cell Research Organization.
<b>ICST</b>	Imperial College of Science & Technology, London, England.
<b>ICSU</b>	International Council of Scientific Unions.
<b>IDPL</b>	Indian Drugs and Pharmaceuticals, Ltd., Virbhadra (Rishikesh) U.P., New Delhi, India.
<b>IEB</b>	Institute of Epidemiology and Bacteriology, Prague, Czechoslovakia.
<b>IEBR</b>	Institute of Clinical Surgery, Spain. <i>or</i> Spanish Institute of Radicicola Bacteriology, Barcelona, Spain.
<b>IED</b>	Exequiel Dias Institute, Bello Horizonte, Minas Gerais, Brazil, S.A.
<b>IEH</b>	Hokkaido Industrial Experiment Station, Sapporo, Japan.
<b>IEIF</b>	Instituto Experimental de Investigaciones y Fomento Agrícola Ganadero, Santa Fé, Argentina, S.A.
<b>IEM</b>	Institute of Epidemiology and Microbiology, Srobarava 48, Prague 10, Czechoslovakia. <i>Also</i> IEMP, IEMUEM and UEM.
<b>IEMP</b>	<i>See</i> IEM.
<b>IEMUEM</b>	<i>See</i> IEM.
<b>IFCC</b>	International Federation of Culture Collections (a subsidiary of IAMS, but no longer in existence).
<b>IFEU</b>	Estanzuela Phytotechnical Institute, Colonia, Uruguay, S.A.
<b>IFM</b>	Institute for Food Microbiology, Chiba University, 113-4, Okubo, Narashino-city, Chiba <i>or</i> 3-9-1 Izumi-cho, Narashino-shi, Chiba-ken, Japan. <i>or</i> Institute for Microbiology, Humboldt University, Berlin, East Germany.
<b>IFO</b>	Institute for Fermentation, 54-4, Nishino-machi, Juso, Higashiyodogawa-ku <i>or</i> 4-54 Nishino-cho, Juso, Higashiyodogawa-ku <i>or</i> Juso Nishino-machi, Higashiyodogawa-ku, Osaka, Japan.

<b>IGC</b>	Center of Biology, Gulbenkian Institute of Science, Oeiras, Portugal.
<b>IGOF</b>	Allied Biological Establishment for Soil and Forest Husbandry, Institute for Cereal, Oil Plants and Forage Plant Diseases, 2305 Kiel-Kitseberg, Germany.
<b>IH</b>	Institute of Hygiene, Warsaw, Poland.
<b>IH Basle</b>	Institute of Hygiene, Basle, Switzerland.
<b>IH Berne</b>	Institute of Hygiene, Berne, Switzerland.
<b>IH Budapest</b>	Institute of Hygiene, Budapest, Hungary.
<b>IHFM</b>	Institute of Hygiene, Frankfurt am Main, Germany.
<b>IHL</b>	Institute of Hygiene, Lausanne, Switzerland.
<b>IHM</b>	Laboratory of Mycology, Faculty of Medicine, Montevideo Institute of Experimental Hygiene, Avda. A. Ricaldoni 3051, Montevideo, Uruguay, S.A.
<b>IH Milano</b>	Institute of Hygiene, Milano, Italy.
<b>IHMU</b>	Institute of Hygiene, Montevideo, Uruguay, S.A.
<b>IH Perugia</b>	Institute of Hygiene, Perugia, Italy.
<b>IH Pisa</b>	Institute of Hygiene, Pisa, Italy.
<b>IHR</b>	Institute of Hygiene, Rome, Italy.
<b>IHS</b>	Institute of Hygiene, Strasbourg, France.
<b>IHUP</b>	Institute of Hygiene, University of the Philippines, Manila, Philippines.
<b>IHUT</b>	Institute of Hygiene of the University, Istanbul, Turkey.
	<i>or</i>
	Institute of Hygiene, University of Vienna, Vienna, Austria.
<b>IID</b>	Institute for Infectious Diseases, University of Tokyo, 1-39 <i>or</i> 1-Chôme Shiba-Shirokanedai-machi, Minato-ku <i>or</i> 1-Chôme, Shiroganedai, Minato-ku, Tokyo, Japan. (Formerly The Institute of Medical Science, University of Tokyo.)
<b>IIEM</b>	Indian Institute for Experimental Medicine, Calcutta, India.
<b>IISR</b>	Indian Institute of Sugar Research, Kanpur, India.
<b>IJMARI</b>	Indian Jute Mills Association Research Institute, Calcutta, India.
<b>III.</b>	Department of Plant Pathology, University of Illinois, Urbana, Ill. 61801.
<b>IM</b>	Inoculation Manufactory, Strančice, Czechoslovakia.
	<i>or</i>
	Microtheque, Mérieux Institute, France.
<b>IMA</b>	Chair of Bacteriology, Agronomic and Veterinary Faculty, Institute of Agricultural Microbiology, M.A.G., Frederico Laxrose 2154, Buenos Aires, Argentina, S.A. <i>or</i> Institute of Microbiology and Agropecuarias Industry, I.N.T.A., Castelar, B.A., Argentina, S.A. See IAMB. <i>Also</i> I.M.I.A.



<b>IMAB</b>	See IMA.
<b>IMAN</b> (ИМАН)	Institute of Microbiology, U.S.S.R. Academy of Sciences, Moscow, U.S.S.R. Rare, usually INMI.
<b>IMASP</b>	Museum of Cultures, Institute of Mycology, Academy of Sciences of People's Republic of China, Peking, China.
<b>IMAT</b>	Institute of Agricultural and Technical Microbiology, Perugia, Italy.
<b>IMATUN</b>	Institute of Agricultural and Technical Microbiology, University of Naples, Naples, Italy.
<b>IMB</b>	Institute of Microbiology and Biochemistry, Maria Curie Shlowdowska University, Lublin, Poland.
<b>IMC</b>	IMC Culture Collection, Growth of Sciences Center, International Minerals and Chemical Corporation, Libertyville, Ill. 60048 U.S.A.
	or
	Institute of Microbial Chemistry, 3-14-23 Kamiosaki, Shinagawa-ku, Tokyo, Japan.
<b>IMCAS</b>	Institute of Microbiology, Czechoslovak Academy of Sciences, Na cvičišti 2, Prague, Czechoslovakia.
<b>IMET</b>	Institute for Microbiology and Experimental Therapy, Beuthenbergstrasse 11, Jena 69, East Germany.
<b>IMI</b>	Imperial Mycological Institute, Kew, England. See CMI. A/so IMI CMI.
<b>IMIA</b>	See IMA.
<b>IMI CMI</b>	See IMI.
<b>IMIV</b> (ИМИВ) or (ИМУВ)	Institute of Microbiology and Virusology, Kazakh Academy of Sciences, Kirova 103, Alma-Ata, Kaz. S.S.R. A/so IMiV.
<b>IMRM</b>	Institute of Medical Research, Malaya.
<b>IMRU</b>	Institute of Microbiology, Rutgers-The State University, New Brunswick, N.J. 08903 U.S.A.
<b>IMS</b>	Institute of Microbiology, Sofia, Bulgaria.
<b>IMT</b>	Institute of Tropical Medicine, Basle, Switzerland.
<b>IMTPL</b>	Prince Leopold Institute of Tropical Medicine, Anvers, Belgium.
<b>IMUNT</b>	Institute of Microbiology, University of Tucumán, Tucumán, Argentina, S.A. A/so IMUT.
<b>IMUR</b>	Institute of Mycology, University of Recife, Recife, Brazil, S.A.
<b>IMUT</b>	See IMUNT.
<b>IMVS</b>	Institute of Medical and Veterinary Science, Adelaide, Australia.
<b>IMZH</b> (ИМЖ)	Institute of Animal Morphology, ul. Vavilova, 12, Moscow, U.S.S.R.

<b>IN</b>	Research Institute, Ihara Noyaku Company, Ltd., 1000 Shibukawa, Shimizu-Shi, Shizuoka-ken, Japan.
<b>INA</b> (ИНА)	Institute for Research on New Antibiotics, Bolshaia Pirogovskaia 11, Moscow, U.S.S.R. <i>A/so</i> IRNA.
<b>INBVV</b> (ИНБВВ)	Institute of Biology of Inland Waters, Borok, Nikouzskii District, Yaroshalskoi Region, U.S.S.R.
<b>INBYUM</b> (ИНБЮМ)	Institute of Biology of the Southern Seas, Acad- emy of Sciences, Ukranian S.S.R., Sevastopol, Ukr.S.S.R.
<b>INMI</b> (ИММИ)	Institute of Microbiology, U.S.S.R. Academy of Sciences, Profsojuzanaja 7, Moscow B-133, U.S.S.R. <i>See</i> IMAN.
<b>INMIA</b>	<i>See</i> INMIArm.
<b>INMIArm.</b> (ИММИАрм.)	Institute of Microbiology, Academy of Sciences, Armenian S.S.R., ul. Charentsa, 19, Erevan, Arm.S.S.R.
<b>INRA</b>	National Institute of Agronomic Research, Paris, France.
<b>INTA</b>	Institute of Plant Pathology, National Institute of Microbiology, Castelar, Argentina, S.A. <i>or</i> National Institute of Agropecuria Technology, Buenos Aires, Argentina, S.A.
<b>IOC</b>	Laboratory of Mycology, Oswaldo Cruz Institute, Caixa Postal 926, Río-Est, Guanabara, Rio de Janeiro, Brazil, S.A.
<b>IP</b>	Institut Pasteur Institute, Docteur Roux, 25, Paris 15, France. <i>A/so</i> IPPF and IPP. <i>or</i> Department of Insect Pathology, Institute of Entomology, Prague, Czechoslovakia.
<b>IPA</b> (ИПА)	Institute of Soil Management and Agrochemistry, Academy of Sciences, Azerbaijan S.S.R., 6-ya Khrebtovaya, 5, Baku, Az.S.S.R.
<b>IPA</b>	Institute of Pedology and Agochemistry, Beograd- Topčider, FNR, Yugoslavia. <i>or</i> Institute for Phytopathology, Aschersleben, Germany.
<b>IPAlger</b>	Pasteur Institute, Alger, Algeria.
<b>IPB</b>	Pasteur Institute, Brussels, Belgium.
<b>IPBD</b>	Commonwealth Bureau of Plant Breeding and Genetics, School of Agriculture, Cambridge, England. <i>See</i> CPBG.
<b>IPCR</b>	Institute for Physical and Chemical Research, 31, Komagome-Kamifujimae-cho, Bunkyo-ku <i>or</i> 2- 28-8 Honkomagome, Bunkyo-ku, Tokyo, Japan.

<b>IPD</b>	Pasteur Institute, Dakar, French East Africa.
<b>IPF</b>	Institut przemyslu fermentacyjnego, Warsaw, Poland.
<b>IPFM</b>	Institute of Parasitology, Faculty of Medicine, Paris, France.
<b>IPH</b>	National Institute of Public Health, Tokyo, Japan.
<b>IPL</b>	Pasteur Institute, Lyon 69, France.
<b>IPLille</b>	Pasteur Institute, Lille, France.
<b>IP Lisbon</b>	Pasteur Institute, Lisbon, Portugal.
<b>IPM</b>	Pasteur Institute, Casablanca, Morocco.
<b>IPO</b>	Institut voor Plantenziektenkundig Onderzoek, Wageningen, Netherlands.
<b>IPP</b>	See IP.
<b>IPPF</b>	See IP.
<b>IPPP</b>	Institute for Plant Physiology, University of Prague, Prague, Czechoslovakia.
<b>IPPretoria</b>	Institute of Pathology, Pretoria, Union of South Africa.
<b>IPR</b>	Institute of Parasitology of the University, Rome, Italy.
<b>IPT</b>	Pasteur Institute, Túnez, Africa.
<b>IPV</b>	Institute of Plant Pathology, University of Milano, Via Celoria 2, 20133, Milano, Italy. <i>Also</i> IPV (M) and IPVM.
<b>IPVM</b>	See IPV.
<b>IPV (M)</b>	See IPV.
<b>IPV (Pisa)</b>	Institute of Plant Pathology, Pisa, Italy.
<b>IPZ</b>	Institute of Soil Science, Teodora Drajzera 7, Beograd, Yugoslavia.
<b>IRCE</b>	Ramon y Cajal Institute, Madrid, Spain.
<b>IRK</b>	Robert Koch Institute, Berlin, Germany.
<b>IRNA</b>	See INA.
<b>ISC</b>	International Salmonella Center.
<b>ISC</b>	Iowa State College, Ames, Iowa 50010 U.S.A. <i>Also</i> ISU.
<b>ISET</b>	Institute of Health and Tropical Diseases, México, D.F., México.
<b>ISN</b>	Institute of Natural Sciences, Ciudad Universitaria, Bogota, Columbia, S.A.
<b>ISP</b>	International <i>Streptomyces</i> Project, Ohio Wesleyan University, Delaware, Ohio 43015 U.S.A.
<b>ISR</b>	Istituto Superiore di Sanite, Rome, Italy. <i>Also</i> ISSR.
<b>ISRA</b>	Institute of Soil Research & Agrochemistry, Hungarian Academy of Science, Herman Otto út 15, Budapest II, Hungary.
<b>ISSR</b>	See ISR.
<b>ISTD</b>	Danish Institute of Sero-therapy, Copenhagen, Denmark.



<b>ISTI</b>	Indian Sugar Technological Institute, Kanpur, India.
<b>ISTTU</b>	Institute of Science & Technology, University of Tokyo, Tokyo, Japan.
<b>ISU</b>	Department of Agronomy, Iowa State University, Ames, Iowa 50010 U.S.A.
<b>ISV</b>	Institute of Plant Health, M.A.G., Argentina, S.A.
<b>ISVI</b>	State Institute of Serums and Vaccines, Hesarak-Karadj, Iran.
<b>ISVV (MCBB)</b>	Scientific Research Institute of Horticulture, Grape Growing and Winemaking, Kishinew, U.S.S.R.
<b>ITBA</b>	Institute of Technology, Buenos Aires, Argentina, S.A.
<b>ITCC</b>	Indian Type Culture Collection, Division of Mycology and Plant Pathology, Indian Agricultural Research Institute, New Delhi 12, India.
<b>ITCCF</b>	Indian Type Culture Collection of Fungi, Indian Agricultural Research Institute, New Delhi 12, India.
<b>ITH</b>	Institute of Tropical Hygiene, Amsterdam, Netherlands.
<b>ITK</b>	Institute of Tuberculosis, Kyoto University, Mukaharmachi, Shogoin, Sakyo-ku, Kyoto, Japan.
<b>IU</b>	The Culture Collection of Algae, Indiana University, Bloomington, Ind. 47401 U.S.A.
<b>IUB</b>	International Union of Biochemistry.
<b>IUBS</b>	International Union of Biological Sciences.
<b>IUNG</b>	Instytut Uprawy, Nawózienia i Gleboznostwa, Pulawy, Poland.
<b>IUNS</b>	International Union of Nutritional Sciences.
<b>IUPAB</b>	International Union of Pure and Applied Biophysics.
<b>IUPAC</b>	International Union of Pure and Applied Chemistry.
<b>IVBP</b>	Veterinary Institute of Bacteriology and Parasitology, University of Berne, Berne, Switzerland.
<b>IVL</b>	Veterinary Institute, Lausanne, Switzerland.
<b>IZ</b>	Fermentation Institute, University of São Paulo, Caixa Postal 56, Piracicaba, São Paulo or San Pablo, Brazil, S.A.
<b>IZS</b>	Institute of Experimental Zooprophyllactics, Teramo, Italy.
<b>JARA</b>	Japan Antibiotic Research Association, Tokyo, Japan.
<b>JARI</b>	Jute Agricultural Research Institute, Barackpore, Cuttack, India.
<b>JCC</b>	Biology Department, Agricultural Institute, Johnstown Castle, Wexford, Ireland.

<b>JDA</b>	2nd Research Center, Development & Research H.Q., Japan Defense Agency, 9, Ikejiri-cho, Setagayu-ku, Tokyo, Japan.
<b>JFCC</b>	The Japanese Federation of Culture Collections of Micro-organisms, Institute for Infectious Diseases, University of Tokyo, Shiba-shirogane-dai-machi, Minato-ku or Institute of Applied Microbiology, University of Tokyo, Bunkyo 8-ku,, Tokyo, Japan.
<b>JHU</b>	Johns Hopkins University, Baltimore, Md. 21205 U.S.A.
<b>JMCH</b>	Japan Monopoly Corporation, Hatano Tobacco Institute, Kanagawa, Japan.
<b>JNAU</b>	Department of Soil Science and Agricultural Chemistry, J.N.A.U., P.B. No. 80, Krishinagar, Jabalpur, India.
<b>Kaken</b>	Kaken Chemical Company, Ltd., 31 Komagome, Kamifujimae-cho, Bunkyo-ku, Tokyo, Japan. <i>See also</i> KCC and KChC.
<b>Kayaku</b>	Kayaku Antibiotics Research Company, 8-2 chôme, Funado-cho, Itabashi-ku, Tokyo, Japan.
<b>KBPMGU</b> <b>(КБПМГУ)</b>	Department of Biology, Faculty of Biology, M.V. Lomonosova Moscow National University, Leninsky gory., Moscow, U.S.S.R.
<b>KCC</b>	Culture Collection of Actinomycetes, Kaken Chemical Company, Ltd., 6-42, Jujodai 1-Chôme, Kita-ku or 31, Komagome, Kamifujimae-cho, Bunkyo-ku, Tokyo 114, Japan. <i>See also</i> Kaken and KChC.
<b>KChC</b>	<i>See</i> KCC.
<b>KFRI</b>	Laboratory of Comparative Biology, Karsir Foundation Research Institute, Richmond, Calif. 94802 U.S.A.
<b>KGU</b> <b>(КГУ)</b>	Kishinevsky National University, g., Kishinev, ul. Pirogova, 65, U.S.S.R.
<b>KHGU</b> <b>(ХГУ)</b>	Kharbkovsky National University, ul. Universitetskaya, 16, Kharbkov, U.S.S.R.
<b>KHL</b>	Kobe Hygienic Laboratory, Hyogo, Japan.
<b>KHS</b>	Regional Public Health Laboratory Service or Regional Hygienic Stations, Czechoslovakia.
<b>KI</b>	The Kitasato Institute, 138 Shirokane, Sanko-cho, Minato-ku, Tokyo, Japan. <i>See</i> KIID. <i>Also</i> KITA.
<b>KIID</b>	Department of Antibiotics, Kitasato Institute, Shiba, Shirogane, Sanko-cho, Minato-ku, Tokyo, Japan. <i>See</i> KI. <i>Also</i> KITA.
<b>KITA</b>	<i>See</i> KIID.
<b>KMMGU</b> <b>(КММГУ)</b>	Department of Microbiology, Faculty of Biology, M. V. Lomonosova Moscow National University, Leninskie gory., Moscow, U.S.S.R.
<b>KNG &amp; SF</b>	Koninklijke Nederlandsche Gist en Spiritusfabriek N.V., or Gist-Brocades N.V., Delft, Netherlands.

<b>KNRMGU</b> <b>(KHPMГЧ)</b>	Department of Lower Plants, Faculty of Biology, M.V. Lomonosova Moscow National University, Leninskie gory., Moscow, U.S.S.R.
<b>KPUM</b>	Medical Microbiological Department, Kyoto Pre- fectural University, Kyoto, Japan.
<b>Král</b>	The Král Collection, one of the first collections of living microorganisms which operated in modern fashion. This collection ceased to exist in 1942.
<b>KSE</b>	Kagawa Shoyu Experimental Station, Tokushima, Japan.
<b>KTH</b>	Royal Technical High School, Stockholm, Sweden.
<b>KUT</b>	Faculty of Engineering, Kansai University, Osaka, Japan.
<b>KY</b>	Tokyo Research Laboratory, Kyowa Hakko Kogyo Company, Ltd., Tokyo, Japan.
<b>KYA</b>	Laboratory of Zymotic & Industrial Fermentations, Faculty of Agriculture, Kyushu University, Fukuoka, Japan. <i>A/so</i> KYU.
<b>KYM</b>	Faculty of Medicine, Kyushu University, Fukuoka, Japan.
<b>KYU</b>	<i>See</i> KYA.
<b>LAKTOFLORA</b>	Research Laboratories of the Dairies, Association for the Production of Pure Milk Cultures, Lakto- flora, Ke dvoru 2, Prague 6, Czechoslovakia.
<b>LAPP</b>	Laboratory for Anatomy and Physiology of Plants, J.E. Purkyně University, Kotlářská, 2, Brno, Czechoslovakia.
<b>LBG</b>	Institute for Agricultural Bacteriology and Fermen- tation Biology, Confederated Technical High School, Zurich, Switzerland.
<b>LBIH</b>	Landbouwproefstation en Bodemkundig Institut, T.N.O. Groningen, Netherlands.
<b>LBL</b> <b>(ЛБЛ)</b>	V.I. Lenin Laboratory Library, G-19, ul., Kalinina 3, Moscow, U.S.S.R.
<b>LBPB</b>	Laboratory of Bacteriology and Parasitology, Faculty of Medicine, University of Bruxelles, Brussels, Belgium.
<b>LC</b>	<i>See</i> LCP.
<b>LCD</b>	Carlsberg Laboratory, Copenhagen, Denmark.
<b>LCF</b>	Central Laboratory of Phytopathology, Buenos Aires, Argentina, S.A.
<b>LCI</b>	Italian Cryptogamic Laboratory, Botanical Institute, University of Pavia, Pavia, Italy. <i>See</i> LCPI.
<b>LCP</b>	Laboratory of Cryptogamy, National Museum of Natural History, 12 Rue de Buffon, Paris (5°), France. <i>A/so</i> LC, MP, PC, LC(P), Mycotheque, and MNHN.
<b>LC(P)</b>	<i>See</i> LCP.
<b>LCPI</b>	Cryptogamic Laboratory, Pavia, Italy. <i>See</i> LCI.



<b>Lederle</b>	Lederle Laboratories, Division of American Cyanamid Company, Pearl River, N.Y. 10965 U.S.A.
<b>Lepetit</b>	Lepetit S. p. A., Via Roberto Lepetit 8, Milano, Italy.
<b>LFCD</b>	Laboratory of Fermentology, Alfred Jørgenson, Copenhagen, Denmark.
<b>LGU</b> <b>(ЛГЧ)</b>	Department of Microbiology, Leningrad National University, Universitetskaya nab., 7/9, Leningrad, U.S.S.R.
<b>LIA</b> <b>(ЛИА)</b>	Museum of Cultures, Leningrad Research Institute of Antibiotics, 32 Ogorodnikov Prospect, Leningrad L-20, U.S.S.R.
<b>LIAN</b> <b>(ЛИАН)</b>	Leningrad Institute of Antibiotics, Ogorodnikova dr. 23, Leningrad, U.S.S.R.
<b>Lilly</b>	Eli Lilly and Company <i>and</i> The Lilly Research Laboratories, Indianapolis, Ind. 46206 U.S.A.
<b>LIP</b>	Laboratory of Insect Pathology, University of California, Berkeley, Calif. 94701 U.S.A.
<b>LKB</b>	Laboratory of Kodama Brewing Company, Itagawa machi, Akita Prefecture, Japan.
<b>LIA</b>	Department of Microbiology, Latvian Academy of Agriculture, Jelgava, Latvia, U.S.S.R.
<b>LM</b>	Laboratory for Microbiology, Delft, Netherlands.
<b>LMW</b>	Laboratory of Microbiology, University of Wageningen, Wageningen, Netherlands.
<b>LNGI</b> <b>(ЛНГИ)</b>	Institute of Chemistry of Natural Products, Moscow, U.S.S.R.
<b>LP</b>	Mycothèque, Laboratory of Parasitology, Faculty of Medicine, Paris, France.
<b>LPS</b>	Societe Anonyme: Les Produits Organiques du Santerre Orsan, Paris, France.
<b>LQA</b>	Laboratorio de Química Agrícola.
<b>LRI</b>	Leather Research Institute, Otrokovice, Czechoslovakia.
<b>LSH</b>	London School of Hygiene and Tropical Medicine, London, England. <i>A/so</i> LSHTM.
<b>LSHB</b>	Biochemistry Department, London School of Hygiene and Tropical Medicine, Keppel Street (Gower Street), London, WCI, England.
<b>LSHM</b>	Mycological Reference Laboratory, London School of Hygiene and Tropical Medicine, London, England.
<b>LSHTM</b>	See LSH.
<b>LSL</b> <b>(ЛСЛ)</b>	The Lenin State Library, Moscow, U.S.S.R.
<b>LT</b>	Treub Laboratory, Boger, Indonesia.
<b>LUV</b>	Ultra-virus Laboratory, Lyon, France.
<b>MacC</b>	Department of Microbiology, Macdonald College, Quebec, Canada.

<b>MACN</b>	Argentine Museum of Natural Sciences, "Bernardino Rivadavia," Buenos Aires, Argentina, S.A.
<b>Magarač</b>	All-Union Scientific-Research Institute of Viniculture and Viniculture, Magarač, Jalta, Krym, U.S.S.R.
<b>MAR</b>	Grasslands Research Station, P. Bag 701, Marondellas, Rhodesia.
<b>MAUE</b>	Laboratory of Industrial Microbiology, Faculty of Agriculture, Tokyo University of Education, Tokyo, Japan.
<b>MB</b>	Herbarium, Botanical Institute, University of Marburg, 355 Marburg/Lahn, Germany.
<b>MCRL</b>	Monopoly Bureau of Japan, Tokyo, Japan. Microbial Chemistry Research Laboratories, Tanabe Seiyaku Company, Limited, 2-2-50 Kawagishi Toda-shi, Saitama-ken or 3073 Shimatoda, Toda-machi, Kita-adashi-gun, Saitama-ken, Japan.
<b>MCU</b>	Faculty of Medicine, Chiba University, Chiba, Japan.
<b>MDB</b>	Microbiology Department, Faculty of Natural Sciences, J.E. Purkyně University, Brno, Czechoslovakia.
<b>MDH</b>	Michigan Department of Health, Lansing, Mich. 48914 U.S.A.
<b>MEIJI</b>	Meiji Milk Products Company, Tokyo, Japan.
<b>MEJ</b>	Ministry of Education, Mombu-sho, Japan.
<b>Merck</b>	Merck Sharp and Dohme Laboratories, Division of Merck and Company, Incorporated, Rahway, N.J. 07065 U.S.A.
<b>MFC</b>	Matsushima Fungus Collection, Shionogi Research Laboratory, Shionogi & Company, Limited, Fukushima-ku, Osaka, Japan.
<b>406 MGL</b>	406th Medical General Laboratory, U.S. Army, Zama, Japan.
<b>Millport</b>	Marine Station, Millport, Scotland.
<b>MKU</b>	Faculty of Medicine, Kanagawa University, Ishikawa, Japan.
<b>MLA</b>	Mycological Laboratory, Botany Department, Allahabad University, Allahabad, India.
<b>MLPF</b>	Laboratory of Microbiology, Faculty of Agriculture, Sarajevo, Yugoslavia.
<b>MMRS</b>	Mount Makulu Research Station, Northern Rhodesia.
<b>MNC</b>	Morinaga Confectionery Company, Laboratory, Tokyo, Japan.
<b>MNHN</b>	See LCP.

<b>MO</b>	School of Medicine, Osaka University, Osaka, Japan.
<b>MOCU</b>	Department of Biochemistry, Osaka City University, School of Medicine, 2-Chôme, Asahi-machi, Abeno-ku, Osaka, Japan. <i>Also</i> MOMU.
<b>MOMU</b>	See MOCU.
<b>Montecatini</b>	Antibiotic Research Laboratory of S.A. Montecatini, Milano, Italy.
<b>MP</b>	See LCP.
<b>MR</b>	Mycological Herbarium of the Federation of Rhodesia and Nyasaland.
<b>MRE</b>	Microbiological Research Establishment, Porton, England.
<b>MRI</b>	Microbiology Research Institute, Central Experimental Farm, Ottawa, Ontario, Canada.
<b>MRNY</b>	Medical Research, New York, N.Y. 11101 U.S.A.
<b>MSNZ</b>	Medical School, Dunedin, New Zealand.
<b>MSU</b> (MC4)	The Moscow State University, Moscow, U.S.S.R.
<b>MTHU</b>	Department of Bacteriology, Faculty of Medicine, Tohoku University, 4 Ban-cho, Kita, Sendai City or Kita 4 Ban-cho, Sendai-shi, Miyagi-ken, Japan.
<b>MTU</b>	Faculty of Medicine, University of Tokyo, 7-Chôme, Hongô, Bunkyo-ku, Tokyo, Japan.
<b>MU</b>	Laboratory of Fermentation, Faculty of Agriculture, Mie University, Tsu, Japan.
<b>MULg</b>	Department of Microbiology, University of Liège, 32, Boulevard de la Constitution, Liège, Belgium.
<b>MVZ</b>	Veterinary Hygienic Laboratories, Czechoslovakia.
<b>MW</b>	Mycology Division, Institute for Special Botany, Jena, Weimar, East Germany.
<b>Mycotheque</b>	See LCP.
<b>NADL</b>	National Animal Disease Laboratory, Ames, Iowa, 50010 U.S.A.
<b>NARI</b>	National Agricultural Research Institute, M.A.F., Tokyo, Japan.
<b>NARI (AES)</b>	See NARI.
<b>NBIR</b>	The National Bureau of Industrial Research, Ministry of Economic Affairs, P.O. Box 268, Chungking, China.
<b>NBIRN</b>	The National Bureau of Industrial Research, Nanking, China.
<b>NBL</b>	Naval Biological Laboratory, Oakland, Calif. 94623 U.S.A.
<b>NCA</b>	National Canner's Association, Washington, D.C. 20006 U.S.A.
<b>NCDC</b>	See CDC.
<b>NCDO</b>	National Collection of Dairy Organisms, Shinfield, Reading, Berkshire, England.



<b>NCIB</b>	National Collection of Industrial Bacteria, Ministry of Agriculture, Fisheries, and Food, Torry Research Station, P.O. Box 31, 135 Abbey Road, Aberdeen AB9 8DG, Scotland.
<b>NCIM</b>	National Collection of Industrial Microorganisms, National Chemical Laboratory, Poona 8, Maharashtra, India.
<b>NCL</b>	National Chemical Laboratory, Division of Technical Services, Poona 8, India.
<b>NCMB</b>	National Collection of Marine Bacteria, Ministry of Agriculture, Fisheries, and Food, Torry Research Station P.O. Box 31, 135 Abbey Road, Aberdeen AB9 8DG, Scotland.
<b>NCPPB</b>	National Collection of Plant Pathogenic Bacteria, Plant Pathology Laboratory, Harpenden, Hertfordshire, England.
<b>NCSC</b>	North Carolina State College, Raleigh, N.C. 27607 U.S.A.
<b>NCTC</b>	National Collection of Type Cultures, Central Public Health Laboratory, Colindale Avenue, London, N.W. 9, England. (Formerly located at the Lister Institute.)
<b>NCUM</b>	Medical School, Nagoya City University, Nagoya, Japan.
<b>NCYC</b>	National Collection of Yeast Cultures, Brewing Industry Research Foundation, Nutfield, Redhill, Surrey, England.
<b>NDRC</b>	Former National Defense Research Committee, Washington, D.C., U.S.A.
<b>NDSU</b>	Department of Bacteriology, North Dakota State University, Fargo, N. Dak. 58102 U.S.A.
<b>NEA</b>	Nobel Explosives Company, Ardeer, Scotland.
<b>NGO</b>	Non-Governmental Organizations.
<b>NGR</b>	Department of Agriculture, Stock and Fisheries, Port Moresby, Papua and New Guinea.
<b>NHL</b>	National Hygienic Laboratory <i>or</i> National Institute of Hygienic Sciences, 2-203 Tamagawa Yagamachi, Setagaya-ku, Tokyo, Japan.
<b>NI</b>	Nagao Institute, 96 Kinuta-machi, <i>or</i> 380 Mishuku, Satagaya-ku, <i>or</i> Kitashinagawa, Tokyo, Japan.
<b>NIAH</b>	National Institute of Animal Health, Ministry of Agriculture and Forestry, Jôsui-hommachi, Kodaira City, Tokyo, Japan.
<b>NIAQT</b>	National Institute for Agricultural Quality Testing, Keleti Károly u. 24, Budapest II, Hungary.
<b>NIAS</b>	Department of Soils and Fertilizers, National Institute of Agricultural Sciences, Nishigahara, Kita-ku, Tokyo, Japan.

<b>NIG</b>	National Institute of Genetics, Shizuoka, Mishima, Japan.
<b>NIH</b>	National Institutes of Health, Bethesda, Md. 20014 U.S.A. <i>A/so</i> NIHA.
	<i>or</i> National Institute of Health of Japan, Tokyo, Japan. <i>See a/so</i> NIHA and NIHJ.
<b>NIHA</b>	<i>See</i> NIH.
<b>NIHJ</b>	National Institute of Health of Japan <i>or</i> Department of Antibiotics, National Institute of Health of Japan, 284, Chojamaru, 2-10 Kamiosaki, Shinagawa-ku, Tokyo, Japan. <i>See</i> NIH.
<b>NIK</b>	Nagao Institute, Kyoto Branch, Kyoto, Japan. No longer in existence.
<b>NIMR</b>	National Institute for Medical Research, London, England.
<b>NIRD</b>	National Institute for Research in Dairying, Shinfield, Reading, Berkshire, England.
<b>NISL</b>	Noda Industrial Science Laboratory, Noda <i>or</i> Chiba, Japan.
<b>NIST</b>	National Institute of Science and Technology.
<b>NIVM</b>	National Institute of Veterinary Medicine, Brno, Czechoslovakia.
<b>NJES</b>	New Jersey Agricultural Experiment Station, New Brunswick, N.J. 08903 U.S.A.
<b>NLABS (QM)</b>	Pioneering Research Laboratory, U.S. Army Natick Laboratories, Natick. Mass. 01760 U.S.A.
<b>NPN</b>	Department of Agricultural Chemistry, Nagoya University, Chikusa-ku, Nagoya, Japan.
<b>NRC</b>	National Research Council, Sussex Drive, Ottawa 2, Ontario, Canada. <i>A/so</i> NRC Canad. and NRCC.
	<i>or</i> National Research Centre, Ministry of Scientific Research, Sh. El-Tahrir., Dokki, Cairo, United Arab Republic.
<b>NRC Canad.</b>	<i>See</i> NRC.
<b>NRCC</b>	<i>See</i> NRC.
<b>NRRL</b>	ARS Culture Collection, Northern Regional Research Laboratory, Agricultural Research Service, U.S. Department of Agriculture, 1815 N. University Street, Peoria, Ill. 61604 U.S.A. Formerly referred to as Culture Collection Unit, Fermentation Section, Northern Utilization Research and Development Division <i>or</i> Northern Regional Research Laboratory.
<b>NRS</b>	Collection of Nathan R. Smith, U.S. Department of Agriculture, Washington, D.C. 20250 U.S.A. Also at ARS Culture Collection, Peoria, Ill. 61604 U.S.A. and IMRU.

<b>NSM</b>	National Science Museum, Tokyo, Japan.
<b>NTCCI</b>	National Type Culture Collection, Indian Institute of Science, Bangalore, India.
<b>NTHC</b>	Norse Technical Høgskoles Collection, Department of Biochemistry, Technical University of Norway, Trondheim MTH, Norway.
<b>NTSU</b>	Department of Biological Sciences, North Texas State University, Box 5218, N.T. Station, Denton, Tex. 76203 U.S.A.
<b>NUFS</b>	Faculty of Science, Nagoya University, Nagoya, Japan.
<b>NYBG</b>	New York Botanical Garden, Bronx Park, New York, N.Y. 10458 U.S.A.
<b>NYSDH</b>	New York State Department of Health, Albany, N.Y. 12224 U.S.A.
<b>OAC</b>	Mycological Herbarium, Department of Botany, Ontario Agricultural College, Guelph, Canada.
<b>OECD</b>	Organization for Economic Co-operation and Development, Paris, France.
<b>OEEC</b>	Organization of European Economic Cooperation. Superseded by OECD.
<b>OEU</b>	Tennoji Branch, Osaka University of Liberal Arts and Education, Minami-Kawabori-cho, Tennoji-ku or Ikedashi, Osaka, Japan. See <i>also</i> OUE. OEU is usual acronym.
<b>OHS</b>	Public Health Laboratory Services or District Hygienic Stations, Czechoslovakia.
<b>OMC</b>	Osaka Medical College, Osaka, Japan.
<b>OMS</b>	World Health Organization.
<b>OPA</b>	Faculty of Agriculture, Osaka Prefectural University, Osaka, Japan.
<b>OPH</b>	Osaka Prefectural Hospital, Osaka, Japan.
<b>ORL</b>	Laboratory of Microbiology, Faculty of Science, 45-Orleans 02, Loiret, France.
<b>ORTHO</b>	Ortho Research Foundation, Raritan, New Jersey, U.S.A. <i>Also</i> Ortho Res. Found.
<b>Ortho Res. Found.</b>	See ORTHO.
<b>OSDA</b>	Department of Agronomy, The Ohio State University, 1885 Neil Avenue, Columbus, Ohio 43210 U.S.A.
<b>OSU</b>	Withycombe Hall, Oregon State University, Corvallis, Ore. 97331 U.S.A.
<b>OTHS</b>	See OUT.
<b>OUE</b>	See OEU.
	<i>or</i>
	See OUT.
<b>OUS</b>	Faculty of Science, Osaka University, Osaka, Japan.



<b>OUT</b>	Faculty of Engineering, Osaka University, Yamadaue, Suita City, Osaka, Japan. <i>or</i> Department of Fermentation Technology, Osaka University, 9-Chôme, Higashinoda-machi, Miyakoshima-ku, Osaka, Japan.
<b>OWMC</b>	Department of Microbiology, Osaka Women's Medical College, Osaka, Japan.
<b>Paris</b>	Laboratory of Cryptogamy and Algology, National Museum of Natural History, Paris, France.
<b>PATU</b>	Laboratory of Plant Pathology, Faculty of Agriculture, Tokyo University, Tokyo, Japan.
<b>PC</b>	See LCP.
<b>PCC</b>	Purdue Culture Collection, Department of Biological Sciences, Purdue University, Lafayette, Ind. 47907 U.S.A.
<b>PCI</b>	Penicillin Control and Immunology Section, Food and Drug Administration, 7th and Jefferson Drive S.W., Washington, D.C. 20204 U.S.A.
<b>PD</b>	Plantenziektenkundige Dienst, Wageningen, Netherlands. <i>or</i> Parke, Davis & Company <i>and</i> Parke, Davis Research Laboratories, Joseph Campau at the River, Detroit, Mich. 48232 U.S.A.
<b>PDD</b>	Herbarium of Plant Diseases Division, Auckland, New Zealand.
<b>Pfizer</b>	Charles Pfizer and Company, Groton, Conn. 06340 U.S.A.
<b>PHL</b>	Public Health Laboratory, Albany, N.Y. 12224 U.S.A.
<b>PHLS</b>	Public Health Laboratory Service, Central Public Health Laboratory, Colindale Ave., London, NW9, England.
<b>PIEM</b>	Prague Institute of Epidemiology and Microbiology, Prague, Czechoslovakia.
<b>PIR</b>	The N. Poushkarov Institute of Soil Science, 136 9 September Boulevard, Sofia, Bulgaria.
<b>PIRI</b>	Research Institute for the Pharmaceutical Industry, Budapest, Hungary.
<b>PL</b>	Mycothèque, Laboratory of Parasitology, Faculty of Medicine, Paris, France.
<b>PLPH</b>	Provincial Laboratory of Public Health, Edmonton, Alberta, Canada. See also UAMH.
<b>Plymouth</b>	Marine Biological Laboratory, Plymouth, England.
<b>PQMD</b>	See QM.
<b>Prag</b>	Laboratory of Autotrophic Organisms, Czechoslovakian Academy of Sciences, Prague, Czechoslovakia.
<b>PRI</b>	Plant Research Institute, Ottawa, Ontario, Canada.

<b>PRL</b>	Prairie Regional Laboratory, Saskatoon, Saskatchewan, Canada.
<b>PSA</b>	Progetto Sistematica Actinomiceti, "P". Stazzi" Institute, Institute of Microbiology, University of Milano, Via Mangiagalli 31 or Via Celoria 10, Milano, Italy.
<b>PUO</b>	Biologickij ôstav Lek., Fakulty Palackeho University, Olumouc, Czechoslovakia.
<b>PZH</b>	Collection of Cultures, Institute of Hygiene, Warsaw, Poland.
<b>QEC</b>	Queen Elizabeth College, London University, London, England.
<b>QIMR</b>	Queensland Institute of Medical Research, Herston Road, Herston, Brisbane, Queensland 4006, Australia.
<b>QM</b>	Pioneering Research Division, Quartermaster Research and Engineering Command, U.S. Army, Natick Laboratories; Quartermaster Research and Development Center; or Quartermaster Depot, U.S. Army, Philadelphia, Pa. . 19104, U.S.A. A/so PQMD, QMRDC, and QM QMRDC. QM is usual acronym for designation of cultures.
<b>QM QMRDC</b>	See QM.
<b>QMRDC</b>	See QM.
<b>RAJ</b>	See ARIN.
<b>RCR</b>	Rothamstead Collection of <i>Rhizobium</i> , Soil Microbiology Department, Rothamstead Experimental Station, Harpenden, Hertfordshire, England.
<b>RCS</b>	Imperial College of Science and Technology, London University, London, England.
<b>RES</b>	Rothamsted Experimental Station, Harpenden, Hertfordshire, England.
<b>RH</b>	Rudolph Hugh Collection, George Washington University, Washington, D.C. 20006 U.S.A.
<b>Rhone-Poulenc</b>	See RP.
<b>RI</b>	Rockefeller Institute, New York City, N.Y. 10020 U.S.A.
<b>RIA</b>	Research Institute for Ampelology, Budapest, Hungary.
	or
<b>(PNA)</b>	USSR Research Institute for Antibiotics, Nagatinskaya ul. 3a, Moscow B-105, U.S.S.R. A/so USSR RIA and VNIIA.
<b>RIB</b>	Research Institute of Brewing, Tax Administration Agency, 2-6 Takinogawa, Kita-ku, Tokyo 114, Japan. A/so GIB and BSRI.
	or
	Research Institute, Borstel, Germany.

<b>RIBM</b>	Research Institute for Brewing and Malting, Lipová 15, Prague 2, Czechoslovakia.
<b>RIDC</b>	Research Institute for Distillery and Canning Industry, Miletičova ul. 14b, Bratislava, Czechoslovakia. <i>See</i> RIDCI.
<b>RIDCI</b>	Research Institute for Distillery and Canning Industry. <i>See</i> RIDC.
<b>RIFY</b>	Research Institute of Fermentation, Yamanashi University, Kofu, Japan. <i>See</i> YFI.
<b>RIJPK</b>	Rijksdienst voor de IJsselmeerpolders, (IJssel Lake Polders Development and Colonization Authority) Molenstraat 28, Kampen, Netherlands.
<b>RIL</b>	Ross Institute, London, England.
<b>RIMD</b>	Research Institute for Microbial Diseases, Osaka University, Nishi-machi, Dôjima, Kita-ku <i>or</i> Yamadaue (Yamada-Kami), Suita City, Osaka, Japan.
<b>RIO</b>	Research Institute, Canada Agriculture, University Sub P.O., London, Guelph, Ontario, Canada.
<b>RIR</b>	Research Institute for Refrigeration, Bratislava, Czechoslovakia.
<b>RIT</b>	Recherche et Industrie Therapeutique, 13 rue du Tilleul, Genval, Belgium.
	<i>or</i>
	Rega Institute, University of Leuven, Minderbroedersstraat, 10, Leuven, Belgium.
<b>RIVE</b>	Research Institute for Viticulture and Enology, Matušková ul. 97, Bratislava, Czechoslovakia.
<b>RIVM</b>	Research Institute of Veterinary Medicine, Brno, Czechoslovakia.
<b>RJ</b>	Institute of Research and Experimentation of Centro Sul (I.P.E.A.C.S.), km 47-Via Campo Grande-ZC-26, GB, Brazil, S.A.
<b>RLL</b>	Research Laboratories, Lepetit S.p.A., Milano, Italy. <i>A/so</i> RLLM.
<b>RLLM</b>	<i>See</i> RLL.
<b>RML</b>	Rocky Mountain Laboratory, Hamilton, Mont. 59840 U.S.A.
<b>Roussel</b>	Roussel Research Center (U.C.L.A.F.), III route de Noisy, Romainville, Seine, France. <i>A/so</i> UCLAF.
<b>RP</b>	Société des Usines Chimiques, Rhône-Poulenc, 9 quai Jules Guesde, a Vitry s/Seine, Seine <i>or</i> 22 Avenue Montaigne, Paris 8, France. DS is used as an acronym for strain designations. <i>A/so</i> Rhone-Poulenc and DS.
<b>RRIC</b>	Rubber Research Institute, Ceylon.
<b>RRIM</b>	Rubber Research Institute, Malaya.
<b>RSA</b>	Rancho Santa Ana Botanic Garden, Claremont, Calif. 91711 U.S.A.



<b>RTCI</b>	Research Laboratories, Takeda Chemical Industries, Ltd., 27 Dosho-machi, 2 Higashi-ku, Osaka, Japan.
<b>RTM</b>	Research and Training Institute, Mlingano, Private Bag, Ngomeni, Tonga, Tanzania.
<b>SAN</b>	Laboratory of Phytopathology, Institute of Plant Health, Paseo Colon 922, 2° Piso, Buenos Aires, Argentina, S.A.
<b>SANK</b>	See Sankyo.
<b>Sankyo</b>	Central Research Laboratories, Sankyo Company, 2-58, 1-chôme, Hiro-machi, Shinagawa-ku, Tokyo, Japan, A/so SANK.
<b>SAOE</b>	Agronomy and Enology Station, Bordeaux, France.
<b>SARC</b>	Microbiology Section, Plant Protection Research Institute, Private Bag 134, Pretoria, Union of South Africa.
<b>SBMP</b>	Research Laboratory of Dairy Science, Snow Brand Milk Products Company, Ltd., Sapporo, Japan.
<b>SC</b>	Squibb Institute for Medical Research, New Brunswick, N.J. 08903 U.S.A. A/so Squibb.
<b>Schenley</b>	Schenley Laboratories, Inc., Lawrenceburg, Ind. 47025 U.S.A.
<b>SCIBP</b>	Special Committee for the International Biological Program.
<b>SEATO</b>	SEATO Medical Research Laboratory, Bangkok, Thailand.
<b>SEFF</b>	Fruittree Culture Substation, Farraouphila, Brazil, S.A.
<b>SEMIA</b>	Section of Agricultural Microbiology, Secretary of Agriculture, Porto Alegre Rs, Brazil, S.A.
<b>SES</b>	Sericultural Experimental Station, Tokyo, Japan.
<b>SFC</b>	Federal Station for Testing Cultures, Lausanne, Switzerland.
<b>SFEV</b>	Federal Station for Viticultural and Arboricultural Testing, Lausanne, Switzerland.
<b>SFPA</b>	Phytopathological Service, Secretary of Agriculture, AV. Julio de Castillos 585, Porto Alegre, Rio Grande do Sul, Brazil, S.A.
<b>SGC</b>	General Water Society, Barcelona, Spain.
<b>SHIO</b>	See SRL.
<b>Shionogi</b>	See SRL.
<b>SIES</b>	Shimane Industrial Experimental Station, Matsue, Japan.
<b>SIF</b>	Statens Institutt for Folkchelse, Oslo, Norway.
<b>SIFF</b>	National Institute of Public Health, Oslo, Norway.
<b>SIO</b>	Scripps Institution of Oceanography, La Jolla, Calif. 92037 U.S.A.

<b>SIR</b>	Institute of Science and Industrial Research, Osaka, Japan.
<b>SIRI</b>	Sugar Industry Research Institute, Mauritius.
<b>SIW</b>	Smithsonian Institution, Washington, D.C. 20560 U.S.A.
<b>SKS</b>	Stuttgart-Korntaler Collection; Mycological-Bacteriological Arbeitsgemeinschaft, Staudtstrasse 19, Korntal b. Stuttgart, Germany.
<b>SKU</b>	Faculty of Science, Kyoto University, Kyoto, Japan.
<b>Smith</b>	See NRS.
<b>SMKU</b>	School of Medicine, Keio University, Tokyo, Japan.
<b>SOE</b>	Servicio Oleiocola, Encantado, Brazil, S.A.
<b>SOU</b>	Faculty of Science, Osaka University, Osaka, Japan.
<b>SPL</b>	Department of Bacteriology, State Laboratory for Soil and Crop Research, Lyngby, Denmark.
<b>Squibb</b>	See SC.
<b>SRI</b>	The Scientific Research Institute, Ltd., Sumiki Laboratory, Tokyo, Japan.
<b>SRL</b>	Shionogi Research Laboratory, 2147, Kami, Sagisu, Fukushima-ku or 2047 Sagisu-kamidori, Fukushima-ku, Osaka, Japan. A/so Shionogi and SHIO.
<b>SRMS</b>	Station of Research and Soil Microbiology, 7 rue Sully-21-Dijon, France.
<b>SRS</b>	Sericultural Research Station, Ales, France.
<b>SSES</b>	Sericultural Experiment Station, Taitama Prefecture, Japan.
<b>SSIC</b>	State Serum Institute, Copenhagen, Denmark.
<b>STMPR</b>	School of Tropical Medicine, Puerto Rico.
<b>STO</b>	Sapporo Taxation Office, Hokkaido, Sapporo, Japan.
<b>SU</b>	Australian Inoculant Research and Control Service, Department of Agriculture, P.M.B. 10, Rydalmere, New South Wales 2116, Australia.
<b>SVÚ</b>	State Veterinary Laboratories, Czechoslovakia.
<b>TA</b>	Bacteriology Laboratory, Department of Agriculture, Launceston, Tasmania, Australia.
<b>Takeda</b>	Takeda Chemical Industries, Ltd., Juso-Nishinocho, Higashiyodagawa-ku, Osaka, Japan.
<b>TAU</b>	Tokyo Agricultural University, Tokyo, Japan.
<b>TC</b>	Department of Biological Sciences, Technological College, Prague, Czechoslovakia.
<b>TCCJMI</b>	Type Culture Collection, John McCormick Institute, Chicago, Ill. 60604 U.S.A. Forerunner of ATCC.
<b>TCXA</b>	Moscow Order of Lenin Agricultural Academy, Moscow, U.S.S.R. See TSKHA.
<b>TDEL</b>	Technical Development Establishment Laboratory, Kanpur, India.

<b>TH</b>	Technical High School, Delft, Netherlands.
<b>THU</b>	Department of Fermentation Technology, Hiroshima University, 3-chôme, Senda-cho, Hiroshima-city, Japan.
<b>TI</b>	Herbarium of the Department of Botany, Faculty of Science, University of Tokyo, Tokyo, Japan.
<b>TIT</b>	Laboratory of Biological Chemistry, Tokyo Institute of Technology, Tokyo, Japan.
<b>TJM</b>	Tokyo Jikeikai Medical School, Tokyo, Japan.
<b>TKA</b>	Tokai-Kinki National Agricultural Experiment Station, Tsu, Japan.
<b>TKU</b>	Faculty of Technology, Kyoto University, Kyoto, Japan.
<b>TL</b>	Treub Laboratory, Bogor, Indoneisa. <i>or</i> Treub Laboratory, Buitenzorg, Java.
<b>TLM</b>	Tokyo-to Laboratory for Medical Sciences, Tokyo, Japan.
<b>TOT</b>	Laboratory of Applied Microbiology, Faculty of Agriculture, Tottori University, Japan.
<b>TPI</b>	Tropical Products Institute, 56-62 Gray's Inn Road, London WC1, England.
<b>TRIC</b>	Tea Research Institute, Ceylon.
<b>TRL</b>	Timber Research Laboratory, Johannesburg, Union of South Africa.
<b>TRTC</b>	Department of Botany, University of Toronto, Toronto, Ontario, Canada.
<b>TSCHA</b>	Agricultural Academy im. Timiryazeva, Moscow, U.S.S.R.
<b>TSES</b>	Taiwan Sugar Experimental Station, Taiwan, China.
<b>TSGNKI</b> (ЦГНКИ)	Tarasevicha Central Government Scientific Institute, Sivtsev-Vrazhek, 41, Moscow, U.S.S.R.
<b>TSKHA</b> (ЦХА)	K.A. Timiryazeva, Moscow Order of Lenin Agricultural Academy A, 8, Novoe Shosse, Moscow, U.S.S.R.
<b>TSM</b>	National Science Museum, Tokyo, Japan.
<b>TSMР</b> (ЦМП)	V.V. Doku'eva, Central Museum of Soil Science B-164, Birzhevoy Proezd, 6, Leningrad, U.S.S.R.
<b>TSNIIMOD</b> (ЦНИИМОД)	Central Scientific-Research Institute of Mechanical Cultivation, Laboratory of Proving Grounds, Tests and Antiseptics, Solnechogorsk, obl., pl. Lesnaya, Moscow, U.S.S.R.
<b>TSNIIMS</b> (ЦНИИМС)	Central Scientific-Research Institute of the Butter and Cheese Industry, g. Uglich, Yaroslavskoi obl., Krasnoarmeiskii Bul., 19, U.S.S.R.
<b>TSNIISK</b> (ЦНИИСК)	V.A. Kucherenko, Central Scientific-Research Institute of Building Construction Z-389, 2-ya Institutskaya ul., 6, Moscow, U.S.S.R.
<b>TUAT</b>	Faculty of Agriculture, Tokyo University of Agriculture & Technology, Tokyo, Japan.



<b>TUF</b>	Bacterial Laboratory, Tokyo University of Fisheries, Tokyo, Japan.
<b>U</b>	Department of Microbiology, Agricultural College, Ultuna S-75007, Uppsala 7, Sweden.
<b>UA</b>	Agricultural Chemistry of Soils, University of Arizona, Tucson, Ariz. 86721 U.S.A.
<b>UAB</b>	University of Aston in Birmingham, Birmingham, England.
<b>UAMH</b>	Mold Herbarium and Culture Collection, University of Alberta, Edmonton, Alberta, Canada.
<b>UC</b>	Department of Bacteriology, University of California, Davis, Calif. 95616 U.S.A.
	<i>or</i>
	Institute of Plant Pathology, Universita Cattolica del S. Cuore, Piacenza, Italy.
	<i>or</i>
	University of Colorado, Denver Center, Denver, Colo. 80202 U.S.A.
	<i>or</i>
	Culture Collection, The Upjohn Company, Kalamazoo, Mich. 49001 U.S.A. <i>Also</i> Upjohn.
<b>UCCA</b>	Division of Bacteriology, Agricultural Experiment Station, College of Agriculture, University of California, Davis, Calif. 95616 U.S.A.
<b>UCH</b>	School of Medicine, University of Chicago, Chicago, Ill. 60637 U.S.A.
	<i>or</i>
	Department of Bacteriology, University College Hospital Medical School, University Street, Gower Street, London, England.
<b>UCLAF</b>	See Roussel.
<b>UCST</b>	Department of Microbiology, Institute of Medical-Biological Sciences, University of Concepción, Casilla 272, Concepción, Chile, S.A.
<b>UCW</b>	Department of Agricultural Botany, University College of Wales, Penglais, Aberystwyth, Wales.
<b>UD</b>	Culture Collection of Hydrocarbon Utilizers and Suspect Utilizers, Department of Biology, University of Dayton, Dayton, Ohio 45409 U.S.A.
	<i>or</i>
	Department of Food Science and Technology, University of California, Davis, Calif. 95616 U.S.A.
<b>ÚEM</b>	See IEM.
<b>UEM</b>	See IEM.
<b>UEMP</b>	Regulations Epidemiology and Microbiology, Prague, Czechoslovakia.
<b>UFC</b>	United Fruit Company, Norwood, Mass. 02062 U.S.A.
<b>UGS</b>	University of Geneva, Ginebra, Switzerland.
<b>UHJP</b>	Hebrew University, Jerusalem, Palestine.

<b>UI</b>	University of Indiana, Bloomington, Ind. 47401 U.S.A.
<b>UIFI</b> (ЧИФИ)	The Ukranian Research Institute of Food Industry, Kharkov, Ukr.S.S.R.
<b>UJEP</b>	University of J.E. Purkyne, Brno, Czechoslovakia.
<b>UkrIM</b> (ЧкрИМ)	Institute of Microbiology, Academy of Science, Bol'shaya Zhitomirskaya 28, Kiev, Ukr.S.S.R.
<b>UkrNIIPP</b> (ЧкрНИИПП)	Ukranian Scientific-Research Institute, Pishchevoy Promyshlennosti, Sums kaya, 3, Kharkov, Ukr.-S.S.R.
<b>UMCK</b>	University of Microbial Cultures, Kumasi, Department of Biological Sciences, University of Science and Technology, Kumasi, Ghana.
<b>U.Md.</b>	University of Maryland, College Park, Md. 20740 U.S.A.
<b>UNC</b>	Chair of Agrarian and Industrial Microbiology, Faculty of Agrarian Science, National University of Cuyo, Mendoza, Argentina, S.A.
<b>UNDP</b>	United Nations Development Program.
<b>UNEP</b>	United Nations Environmental Program.
<b>UNESCO</b>	United Nations Education, Scientific and Cultural Organization.
<b>UNIDO</b>	United Nations Industrial Development Organization.
<b>UNT</b>	Institute of Microbiology, National University of Tucumán, Ayacucho 482, San Miguel de Tucumán, Argentina, S.A.
<b>UO</b>	University of Oglethorpe, Atlanta, Ga. U.S.A.
<b>Upjohn</b>	See UC.
<b>USAMSGS</b>	U.S. Army Medical Services Graduate School, Washington, D.C. 20012 U.S.A.
<b>USDA</b>	United States Department of Agriculture, Washington, D.C. 20250 U.S.A.
	<i>or</i>
	Former Plant Industry Station, now part of Agricultural Research Center United States Department of Agriculture, Beltsville, Md. 20705 U.S.A.
<b>USDI</b>	United States Department of the Interior, Washington, D.C. 20242 U.S.A.
<b>USFCC</b>	United States Federation of Culture Collections.
<b>USMH</b>	University of Sheffield Mycological Herbarium, Sheffield, England.
<b>USPH</b>	United States Public Health Service.
<b>USSB</b>	Department of Microbiology, University of Agricultural Sciences, Bangalore-24, India.
<b>USSR, ARI</b> (ЧССР, АРИ)	See ARI.
<b>USSR IPP</b> (ЧССР ИПП)	The U.S.S.R. Research Institute for Plant Protection, Leningrad, U.S.S.R. See also VIZR.

<b>USSR RIA</b> (УССР РИА)	See RIA
<b>UWA</b>	Department of Soil Science and Plant Nutrition, Institute of Agriculture, University of Western Australia, Nedlands, Western Australia 6009, Australia.
<b>UWCA</b>	College of Agriculture, University of Wisconsin, Madison, Wis. 53706 U.S.A.
<b>UWO</b>	University of Western Ontario Culture Collection, Botany Department, University of Western Ontario, London, Ontario, Canada.
<b>VFB</b>	Veterinary Faculty, University of Agriculture, Brno, Czechoslovakia.
<b>VIZR</b> (ВИЗР)	All-Union Institute for Plant Protection, ul. Gertsena, 42, Leningrad, U.S.S.R. See also USSR IPP.
<b>VKF</b>	Veterinary Faculty, University of Agriculture, Košice, Czechoslovakia.
<b>VKM</b> (ВКМ)	All-Union Collection of Microorganisms, Moscow, U.S.S.R.
<b>VNIIA</b> (ВНИИА)	See RIA.
<b>VNIFF</b> (ВНИФФ)	All-Union Scientific-Research Institute of Phyto- pathology, st. Golitsino, Moscow, U.S.S.R.
<b>VNIIM VASCHNIL</b> (ВНИИМ ВАСЧНИЛ)	All-Union Scientific Research Institute s.ch. Micro- biology, VASCHNIL, Moscow, U.S.S.R.
<b>VNIIs/khM</b> (ВНИИс/хМ)	All-Union Scientific-Research Institute of Agricul- tural Microbiology, ul. Gertsena, 42, Leningrad, U.S.S.R. Also VNIIs/khM-L.
<b>VNIIs/khM-L</b> (ВНИИс/хМ-L)	See VNIIs/khM.
<b>VNIIs/khM-M</b> (ВНИИс/хМ-M)	All-Union Scientific-Research Institute of Agricul- tural Microbiology, Konyushkovskaya, d.31, Moskovskoe Otdelenie, Moscow, U.S.S.R.
<b>VNIISP</b> (ВНИИСП)	All-Union Scientific-Research Institute of the Alcohol and Liqueur Industry, Samokatkaya ul., 46, Moscow, U.S.S.R.
<b>VNIMI</b> (ВНИМИ)	All-Union Scientific-Research Institute of the Dairy Industry, Lyucinovskaya, 35, Moscow, U.S.S.R.
<b>VNIVI</b> (ВНИВИ)	All-Union Scientific-Research of Vitamins Institute, Novokuznetskaya, d. 7, Moscow, U.S.S.R.
<b>VRI</b>	Veterinary Research Institute, Brno, Czechoslo- vakia.
<b>VSCHT</b>	Faculty of Chemistry, Technical University, Prague, Czechoslovakia.
<b>VUHEM</b>	Army Research Institute for Hygiene, Epidemiology and Microbiology, Prague, Czechoslovakia.
<b>VUKP</b>	Research Institute for Distillery and Canning In- dustry, Prague, Czechoslovakia.



<b>VUPT</b>	Research Institute for Food Technology, Prague, Czechoslovakia.
<b>WACRI</b>	Cocoa Research Institute of Ghana. (Formerly West African Cocoa Research Institute.)
<b>WADC</b>	Wright Air Development Center, Dayton, Ohio 45433 U.S.A.
<b>WAIFOR</b>	West African Institute for Oil Palm Research.
<b>WB</b>	Department of Bacteriology, College of Agriculture, University of Wisconsin, Madison, Wis. 53706 U.S.A.
<b>Wellcome</b>	See WRL.
<b>WES</b>	Woburn Experimental Station, Bletchley, Bucks, England.
<b>WHO</b>	World Health Organization, Avenue Appia, 1211, Geneva, Switzerland.
<b>WIPO</b>	World Intellectual Property Organization.
<b>WLRI</b>	Warner Lambert Research Institute, Morris Plains, N.J. 07950 U.S.A.
<b>WMS-DB</b>	Department of Bacteriology, Westminster Medical School, London, England.
<b>WRAIR</b>	Walter Reed Army Institute of Research, Washington, D.C. 20012 U.S.A.
<b>WRL</b>	Burroughs Wellcome Research Laboratories, Beckenham, Langley Court, Kent, England. A/so Wellcome.
<b>WRRL</b>	Western Regional Research Laboratory, Agricultural Research Service, U.S. Department of Agriculture, Berkeley, Calif. 94710 U.S.A. Formerly referred to as Western Marketing and Nutrition Research Division or Western Utilization Research and Development Division.
<b>Wyeth</b>	Wyeth Laboratories, Inc., 611 East Nield Street, West Chester, Pa. 19380 U.S.A.
<b>YCC</b>	Yeast Culture Collection, Department of Food Technology, University of California, Davis Calif. 95616 U.S.A.
<b>YFI</b>	Yamanishi Fermentation Institute, Yamanaishi University, Kofu, Japan. See RIFY.
<b>YMC</b>	Yamaguchi Medical College, Abe, Japan.
<b>YP</b>	Tokyo Institute, Yamanouchi Pharmaceutical Company, Ltd., Tokyo, Japan.
<b>YPMC</b>	Microbial Institute, Yamaguchi Prefectural College of Medicine, Tokuyama, Japan.
<b>YU</b>	Yale University, New Haven, Conn. 06520 U.S.A.
<b>YUK</b>	Faculty of Engineering, Yamanashi University, Kofu, Japan.
<b>ZIL</b> (ЗИЛ)	Zoological Institute, Academy of Science, Universitetskaya nab., 1, Leningrad V-164, U.S.S.R.

U. S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL RESEARCH SERVICE

NORTH CENTRAL REGION  
PIONEER INDUSTRIAL PARK  
2000 WEST PIONEER PARKWAY  
PEORIA, ILLINOIS 61614

OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF  
AGRICULTURE  
AGR 101



National Agricultural Library (101-L)  
Current Serials Record  
U. S. Department of Agriculture  
Beltsville, Maryland 20705